

**STATEMENT OF WORK  
FOR  
Southern Communications  
(SouthernComm)**

ATTACHMENT 1 ITALY  
Revised  
7 November 2003

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## SECTION I DESCRIPTION OF SERVICE

**1. GENERAL.** Contractor shall provide qualified personnel to provide communication and non-communication functions as set forth in this Statement of Work (SOW) to meet requirements for the places of performance listed in paragraph 1.1. Contractor shall be responsible for the management, personnel training, operation, scheduled and unscheduled maintenance, and preventive maintenance for equipment listed in Section III. Contractor shall provide sufficient personnel to meet requirements as listed in this SOW for places of performance identified in paragraph 1.1 throughout the life cycle of this contract. Contractor shall meet all identified response and restoral times within this SOW. If response times cannot be met, contractor shall notify the designated government representative (i.e. Maintenance Control, Intermediate Facility Control Office) telephonically at the host communications unit within two hours. If restoral times cannot be met, contractor shall notify the designated government representative either telephonically or electronically (e-mail) within 24 hours.

**1.1. PLACES OF PERFORMANCE.** Contractor shall perform specified functions at the following locations:

	Systems Control	Emergency Power Maintenance	Communications Maintenance	Personnel Alerting System/Giant Voice	Manned (M) Unmanned (U)
Aviano AB, IT				Y	U
Mt Corna, IT	Y	Y	Y		M
Ceggia, IT		Y	Y		U
Mt Venda, IT	Y	Y	Y		U
Ghedì Torre, IT	Y	Y	Y		U
Mt Serra, IT		Y	Y		U
Mt Cimone, IT			Y		U
Mt Paganella, IT		Y	Y		U
Mt Cima Gallina, IT		Y	Y		U

**1.2. SYSTEMS CONTROL.** Contractor shall provide services to include real time transmission systems configuration control, circuit restoration, circuit activation, circuit deactivation, quality control and performance standards, status reporting, master station log, and other actions required by policies, responsibilities and operational procedures contained in Defense Information Systems Agency Circular (DISAC) 310-70-1 Chap 2.5. Contractor shall apply the

performance standards and quality control standards contained in DISAC 300-175-9 and DISAC 310-70-57.

**1.2.1. CIRCUIT RESTORATION.** The contractor shall monitor for degradation, all circuits and systems traversing the facilities. The contractor shall immediately begin process to correct any discovered degradations. The contractor shall apply performance standards and quality control to US Government-owned circuits, commercial leased circuits, and digital equipment and facilities. Documentation shall be accomplished IAW DISAC 310-70-1, Chap 9.

**1.2.2. QUALITY CONTROL AND PERFORMANCE STANDARDS.** Contractor shall perform quality control tests and measurements on all trunks, channels, circuits, and equipment for which the systems control facility is responsible for IAW DISAC 310-70-1 Chap 6.

**1.2.3. REPORTING PROCEDURES.** Contractor shall accomplish reporting, tracking, and monitoring procedures IAW DISAC 310-55-1 through the Intermediate Facility Control Office (IFCO).

**1.2.4. MASTER STATION LOG.** Contractor shall maintain a Master Station Log IAW DISAC 310-70-1, Chap 9, during each 24-hour period.

**1.2.5. SERVICE INTERRUPTIONS.** Contractor shall request and schedule authorized outages for all communications in their areas of responsibility to include subordinate sites IAW DISAC 310-70-1 Chap 7.

**1.2.6. NODE SITE COORDINATOR.** Contractor shall perform node site coordinator duties for the Asynchronous Transfer Mode (ATM) and Integrated Digital Network Exchange (IDNX) systems and equipment and shall acquire all required training IAW DISAC 310-70-1 and 310-55-9.

**1.2.7. CIRCUIT ACTIONS.** Contractor shall perform necessary circuit action duties IAW DISAC 310-70-1 Chap 2 and DISAC 310-130-1, European Supplement 1.

**1.2.8. FACILITY LINK DATABASES.** Contractor shall maintain and update a facility link database and comply with the reporting procedures IAW DISAC 300-85-1.

**1.2.9. ALARM SYSTEMS.** Contractor shall investigate alarm conditions. Isolate and clear alarm conditions and notify the appropriate agency.

**1.2.10. ANCILLARY EQUIPMENT.** Contractor shall install, adjust, and test all ancillary equipment IAW DISAC 310-70-1, Defense Information Systems Agency (DISA) Europe Supplement 2, Chap 6.

**1.2.11. DISA OPERATING MESSAGES.** Contractor shall maintain a general message file to include, but not limited to, DISA's European Defense Station (EURDEFSTA) messages as applicable to each station IAW DISAC 310-70-1 Chap 1.

**1.3. COMMUNICATIONS MAINTENANCE.** Contractor shall provide preventive, organizational, and intermediate level maintenance on all Government Furnished Equipment (GFE) as specified in Air Force Instruction (AFI) 21-116.

**1.3.1. UNSCHEDULED MAINTENANCE.** Contractor shall perform unscheduled maintenance on all equipment items where an equipment deficiency exists, found during any maintenance action, or downward directed modifications.

**1.3.1.1.** Contractor shall utilize maintenance actions as required in AFI 21-116 to repair problems or outages.

**1.3.1.2.** Contractor shall perform equipment cannibalization as outlined in AFI 21-116, Para 4.15.

**1.3.1.3.** Contractor shall collect information for Maintenance Data Collection IAW AFI 21-116, Chap 5.26 and Technical Order (TO) 00-20-2.

**1.3.2. PREVENTIVE MAINTENANCE INSPECTIONS (PMI).** Contractor shall perform all PMIs IAW AFI 21-116 and local directives. Contractor shall obtain authorization to perform RED and AMBER PMIs. Contractor shall notify maintenance control and Intermediate Facility Control Office (IFCO), if applicable, telephonically immediately prior to starting and after completing RED or Amber PMIs IAW DISAC 310-70-1.

**1.3.3. MASTER STATION LOG (MSL).** Contractor shall maintain a Master Station Log IAW DISAC 310-70-1, Chap 9, during each 24-hour period.

**1.3.4. REPORTING PROCEDURES.** Contractor shall provide daily status updates to the host base maintenance control for briefing to the Communications Squadron Commander and/or Flight Commander on all communications equipment status and open maintenance actions (Reference TE-4). Contractor shall report any Hazardous Condition (HAZCON) IAW DISAC 310-55-1, Status Reporting for Global Information Grid (GIG), telephonically or electronically (e-mail) to host base maintenance control and the IFCO.

**1.3.5. WARRANTIES.** Contractor shall comply with all conditions called for by the manufacturer to retain the benefits of the guarantee or warranty. Only if authorized in writing with the specific approval of the Chief of Maintenance, shall the contractor break the seal, dismantle, or modify sealed equipment under manufacturer guarantee or warranty.

**1.3.6. MAINTENANCE CONTROL.** Contractor shall perform work center maintenance control actions and act as the single focal point for directing, controlling, planning, scheduling, reporting, coordinating, and tracking all maintenance activities for communications circuits and equipment IAW AFI 21-116. Contractor shall coordinate status changes to the host base maintenance control. Coordination procedures shall be included in base local directives and include the start time and Estimated Time of Return to Operation (ETRO). ETRO's will be updated as required by maintenance control.

**1.3.7. CORE AUTOMATED MAINTENANCE SYSTEM (CAMS).** Contractor shall report and validate equipment and mission status using the Equipment Status Report (ESR) subsystem in CAMS IAW AFI 21-116, Chap 4 and Air Force Computer Systems Manual (AFCSM) 21-560, Volume 2.

**1.3.7.1.** Contractor shall input maintenance events and status of jobs that change equipment status into CAMS IAW AFCSM 21-560, Volume 2 and AFI 21-103 to process ESR information.

**1.3.7.2.** Contractor shall comply with host database management policies IAW AFI 21-116, Para. 4.19.

**1.3.7.3.** Contractor shall maintain a Master Job Control Log to include PMIs, routine maintenance, and equipment installations or removals.

**1.3.8. MATERIAL CONTROL.** Contractor shall comply with Air Force Manual (AFMAN) 23-110, Vol 2, Part 13. Contractor shall utilize the prescribed Air Force supply procedures for obtaining depot level maintenance for non-Commercial-Off-The-Shelf (COTS) equipment listed in Section III.

**1.3.9. TEST MEASUREMENT AND DIAGNOSTIC EQUIPMENT (TMDE).** Contractor shall perform operator and organizational level maintenance responsibilities for all US Government furnished TMDE IAW AFI 21-116, Atch 5.

**1.3.10. RESPONSE/RESTORAL TO OUTAGES/SITE ALARMS.** Contractor shall respond to the work center within two hours to all reported degradations, outages, site alarms, or HAZCONs of station trunks, links, circuits, equipment and/or power. Contractor shall restore capability within 24 hours. Contractor shall coordinate with the designated government representative at host base maintenance control, IFCO, and any applicable Network Control Center (NCC) or commercial vendor of the outage. Contractor shall comply with the directions of DISA Europe and the Regional Control Center regardless of any predetermined restoration priority. Contractor shall maintain a record of response times for each system or subsystem outage and degradation.

**1.3.10.1.** Contractor shall treat all site alarms as actual alarms until verified. Contractor shall monitor and verify alarms to determine site status prior to contractor dispatch or calling out of emergency response personnel. Contractor shall reset all alarms once the site is secured. Contractor shall adhere to site security requirements as outlined in AFI 31-101 USAFE Sup 1, Para 9.1.4.

**1.3.10.2.** Contractor shall ensure that on-duty or on-call personnel notify the local military law enforcement desk and the Host Nation (HN) law enforcement responsible for respective site intruder alarm prior to proceeding to the site. Upon arrival on site, contractor shall provide site access and escort for designated HN or US emergency response personnel.

**1.3.11. EQUIPMENT or CIRCUIT INSTALLATION and/or REMOVAL.** Contractor shall perform equipment or circuit installation and/or removal IAW DISA direction. Contractor shall

not be expected to handle all technical aspects of a major system upgrade (i.e. upgrade of ATM). However, contractor shall accomplish all routine projects for installations or removals.

**1.3.12. TIME COMPLIANCE TECHNICAL ORDER (TCTO).** Contractor shall perform all TCTO modifications to GFE only upon receipt of US Government issued modification directives IAW AFI 21-116 Atch 6.

**1.3.13. ANTENNA SUPPORT.** Contractor shall perform preventive maintenance activities limited to visual inspections, ordering, and tracking of parts needed for repairs, equipment accountability and assisting with annual and any follow-on Consolidated Antenna Team (CAT) visits. Contractor shall not perform any tower antenna maintenance.

**1.4. PERSONNEL ALERTING SYSTEM.** Contractor shall perform organizational and intermediate level maintenance on all Personnel Alerting Systems (PAS) equipment. Maintain PAS equipment IAW manufacture standards and specifications.

**1.4.1. SYSTEM TESTS.** Contractor shall perform systems testing on a monthly basis.

**1.4.2. SERVICE.** When notified of a PAS outage, contractor shall respond to the outage within 48 hours. Contractor shall complete all repairs within 5 workdays after notification.

**1.4.3. SPECIFIC PMI TASKS.** Contractor shall conduct all Periodic Maintenance Inspections based on manufacturer specifications and intervals.

#### **1.5. EMERGENCY STATION POWER**

Contractor shall perform, operate, inspect, repair, and maintain at the preventive, organizational, and intermediate level all power facilities including, but not limited to, diesel engines, diesel engine cooling systems, diesel engine fuel systems, exhaust systems, switchgear, alternators, battery banks, air compressor systems, protective relays, controls, meters, lifting devices, and facilities IAW Air Force Joint Manual (AFJMAN) 32-1082, AFJMAN 32-1083, Air Force Occupational Safety and Health Standard (AFOSHSTD) 91-10, AFI 32-1062, AFI 32-1063, Air Force Pamphlet (AFP) 91-46 and manufacturer's manuals and technical instructions.

**1.5.1.** Contractor shall perform monthly and quarterly generator tests IAW DISAC 350-195-2.

**1.5.2.** Contractor shall provide and document ancillary training for non-power production personnel assigned to operate emergency power generators (AFI 32-1062, Para 3).

#### **1.6. NON-COMMUNICATIONS REQUIREMENTS**

**1.6.1. ESCORT DUTY.** Contractor shall perform escort services at all locations. Contractor shall ensure that the site is secure upon departure of all personnel. Site access and security will be IAW Air Force Joint Instruction (AFJI) 31-101 and DISACs. Additionally, 16AF/QAE has access to these sites and escort services can be coordinated with that office.

**1.6.2. FILES.** Each work center shall have a Customer Account Representative (CAR) and maintain a library of publications pertinent to that site or facility. The publications library shall be IAW AFI 37-123, V1, DISAC 310-70-1, Chap 9 and DISAC 310-70-1, Europe Supplement 3.

**1.6.2.1. OFFICIAL FILES.** Contractor shall retain and keep current at each work center the official files, manuals, charts, and drawings using best commercial practices. Contractor shall develop file plans for all work centers and manage the filing and disposition of records. All official documentation shall be maintained in English and is considered government property. All official documentation and files created, managed, and received by the contractor in regard to operation and maintenance of the systems, equipment and site(s), whether they be in the form of regulations, manuals, electrical messages, letters, etc, shall be transferred to any follow-on O&M contractor or agency.

**1.6.3. TECHNICAL ORDER (TO).** Contractor shall manage the TO files IAW AFPD 21-3, TO 00-5-1, and TO 00-5-2. Contractor shall establish a Technical Order Distribution Office (TODO). Compliance with TOs is mandatory and shall be maintained IAW TO 00-20-1, 00-20-2, and AFI 21-116.

**1.6.4. COMMUNICATIONS-COMPUTER SYSTEMS INSTALLATION RECORDS (CSIR).** Contractor shall maintain drawings IAW AFI 21-404

**1.6.5. STANDBY SCHEDULE.** Contractor shall maintain a current standby schedule of on-call technicians and provide it to the host base maintenance control (Reference TE-4).

**1.6.6. EQUIPMENT CUSTODIAN.** Contractor shall coordinate equipment matters with the host base equipment management office, supply system personnel for equipment accounted for on the Custodian Authorization/Custody Receipt Listing (CA/CRL), and Information Processing Management System (IPMS) manager for ADPE. Contractor shall receive training from the Main Operating Base (MOB) Equipment Management (EM) office prior to assuming custodial responsibilities.

**1.6.7. PROJECT SUPPORT.** Contractor shall provide coordination on government developed technical solutions (i.e. for new circuit or system installations or upgrades). Contractor shall review and provide comments on Program Support Agreements and Memorandums of Understanding. Contractor shall assist with site surveys such as from fire and security forces inspection and from environmental survey teams and provide access and escort authorized personnel who have a requirement to visit the sites

**1.6.8. INFORMATION PROTECTION AND COMSEC REQUIREMENTS.** Contractor shall assist the host base COMSEC account custodian when identifying requirements, storing, and using COMSEC materials. Contractor shall assign primary and alternate COMSEC Responsible Officers (CRO) where required. Contractor personnel having access to Secret or higher COMSEC material must sign Air Force COMSEC (AFCOMSEC) Form 9, Formal Cryptographic Access Certificate, and consent to a (non-lifestyle) polygraph examination. Contractor personnel having access to COMSEC material shall have a final security clearance equal to or higher than the classification of the material they will be using. Contractor shall administer the COMSEC program IAW Air Force



COMSEC General Publication (AFKAG)1, AFKAG2, Air Force System Security Instruction (AFSSI) -4005, AFSSI-4006, AFI 33-211.

**1.6.9. BUDGET.** Contractor shall submit annual projections on requirements for supply system, capital equipment and training expenses to be considered in government long-range budget. Contractor shall submit annual requirements according to each host base resource management instructions for operations covered within the PWS (Reference TE-4).

**1.6.10. HOUSEKEEPING.** Contractor shall provide general housekeeping services in all assigned facilities and areas, as listed in Table 3.2.1. Housekeeping services include, but are not limited to, cleaning, sweeping, mopping, scrubbing, waxing, window washing, and refuse collection and disposal.

## **1.7. SITE UNIQUE REQUIREMENTS.**

**1.7.1. GIG SITE ACCESS REQUIREMENTS.** Access to all sites must be coordinated with GIG Site Coordinator. Contractor shall provide updated access rosters semiannually and within 48 hours of personnel changes. Roster is provided to GIG Site Coordinator(s), 31CS/SCMSW who in turn provide the lists to Italian Military, Telecom, and RAI (Italian Radio and Television).

**1.7.2. Mt Cimone, Italy.** Prior to arrival contractor shall coordinate with Italian Air Force personnel. Site is located above a ski resort and access is limited to tram, snow-cat, and ski lift during ski season, and access road during the off-season. Weather may delay arrival at site.

**1.7.3. Mt Paganella, Italy** is located above a ski resort and is accessible by ski lift, helicopter, depending on ski season, weather, and snow level. Weather may delay arrival at site. Helicopter use is authorized only if other options not available.

**1.7.4. Mt Cima Gallina** is accessible by helicopter only. Arrival and departure from the site are regulated by the weather.

**1.7.5.** The government will provide helicopter or ski lift to Mt Paganella, and helicopter transport only to Mt Cima Gallina. Additionally, ski lift, tram, and snow-cat will be provided at Mt. Cimone. Contractor shall coordinate with 31 CS for these services.

**1.7.6.** Mt Corna is the supply point for SONet/Alcatel systems in Italy to include all contractor sites, Aviano AB, Coltano, and Vicenza (the last two being US Army sites).

## SECTION II SERVICE DELIVERY SUMMARY

	Performance Objective	SOW Paragraph	Performance Threshold
1	Required Reports	TE4	95% accuracy in maintaining and submitting all forms, reports, logs and schedules
2	Circuit Restoration	1.2.1	95% of all circuit degradation will be documented correctly and have the correct performance standard applied
3	Reporting Procedures	1.2.3.	100% of reports shall be submitted, 95% of all reports shall be on time
4	Service Interruptions	1.2.5., 1.3.4.	90% of all requests will be submitted on-time; 100% of user notification/release time frames will be met; DISA approval authority will be acquired prior to initiation of service interruption
5	Node Site Coordinator	1.2.6.	100% of node Site coordinator duties will be accomplished within a 95% accuracy rate. 100% of training will be acquired.
6	Alarm Systems	1.2.9., 1.3.10.	100% of all alarms will be investigated with a 95% accuracy rate of notifying the correct maintenance activity
7	Ancillary Equipment	1.2.10.	100% of ancillary equipment will be installed; 90% will meet all test standards
8	Equipment or Circuit Installation and/or Removal	1.3.11.	100% of all requested actions will be accomplished with a 95% on-time activation/deactivation rate
9	Communications Maintenance	1.3.	100% of all maintenance will be conducted: 90% of maintenance will be accomplished as scheduled
10	Response to Outages/Site Alarms	1.3.10.	100% Response to all alarms, outages, trouble calls, and faults with a 95% on-time rate.
11	Maintenance Control	1.3.6.	Process and document 100% of customer trouble calls with 95% accuracy on trouble ticket status reports.
12	Personnel Alerting System (PAS) requests	1.4.	90% of PAS equipment maintenance will be conducted as required by <u>manufacturers'</u> standards.
13	Station Power	1.5.	100% of all maintenance will be conducted: 95% of all generator tests will be accomplished on time.
14	Files and Administration Requirements	1.6.	95% accuracy of files maintenance and disposition, publications and technical orders.

Deleted: manufacturers

### SECTION III GOVERNMENT FURNISHED PROPERTY AND SERVICES

**3. GENERAL INFORMATION.** The Government shall provide the facilities, equipment, materials, records, and/or services listed below. All Government property used by the contractor shall be accounted for in accordance with the Government property clause and the general provisions of the contract.

**3.1. GOVERNMENT FURNISHED PROPERTY.**

The Government shall provide facilities described below. Prior to any modification of the facilities performed by the contractor, the contractor shall furnish the contracting officer (CO) the documentation describing, in detail, the facility modification required. No alterations to the facilities shall be made without specific written permission from the CO. Contractor may utilize the Self Help program to perform minor facility maintenance (i.e. paint, minor hardware items, etc.). Contractor shall return the facilities to the Government in the same condition as received, fair wear and approved modifications excepted. These facilities shall be used for the performance of this contract only. Contractor shall submit report of all damage to government facilities (Reference TE-4).

**3.1.1. FACILITIES.**

SITE NAME	BUILDING NAME (if any)	BUILDING NUMBER	FUNCTION OR OFFICE NAME	ROOM NUMBER	SQUARE FEET	REMARKS
Aviano	31 CS HQ Bldg	940	Maintenance Area		270	
Mt Corna	Communications Bldg	4100	Wideband/Power Production Work Area		2290	
	Office Bldg	4101	Administrative Offices		780	
	Recreation Bldg	4103	Recreation Bldg		1497	
	Pump Bldg		Water Pump Bldg		29	
	Storage 1 Bldg		Storage Bldg		80	
	Storage 2 Bldg		Storage/Garage		96	
	Storage 3 Bldg	4112	Flammables Storage		62	
	Tower		GIG Tower			

	ENEL Bldg	4108	Electrical Input to site		97	Bldg Access Controlled by Italian ENEL
Ceggia	Communications Bldg		Wideband/Power Production Work Area		1544	
	Tower		GIG Tower			
Mt Venda	Communications Bldg		Wideband/Power Production Work Area		3171	
	Tower		GIG Tower			
	Storage Bldg		Flammables Storage		24	
Ghedì	Communications Bldg		Wideband/Power Production Work Area		700	
	Tower		GIG Tower			
Mt Serra	Communications Bldg		Wideband Work Area		110	
	Tower		GIG Tower			
	Generator Bldg		Generator Bldg		110	
	Old AFN Bldg		Storage Bldg		25	
Mt Cimone	Communications Bldg		Wideband Work Area		3143	
	Tower		GIG Tower			
Mt Paganella	Communications Bldg		Wideband/Power Production Work Area		2270	
	Tower		GIG Tower			
	Storage Bldg		Flammables Storage		24	
Mt Cima Gallina	Communications Bldg		Wideband Work Area		2304	
	Tower		GIG Tower			

**3.2. GOVERNMENT-FURNISHED EQUIPMENT (GFE).** The Government shall provide the contractor equipment listed below. Contractor shall manage the equipment in accordance with the provisions of the ‘*Government Property*’ clause of this contract. Contractor shall submit requests for replacement of GFP required in the performance of the contract to the FAC and CO for approval and any appropriate contract modification (Reference TE-4).

**3.2.1. CEGGIA**

FUNCTION	CATEGORY EQUIP	MANUFACTURE NAME	COMMON NAME	MODEL NUMBER	Qty	Remarks	Unit Cost	Total Cost
Wideband	Comm Eq		Frame, Intermediate Distribution		1		\$5,000	\$5,000
Wideband	Comm EQ		Rectifier Power Supply System	Flotrol	1	2 paralleled RHM100D50 Rectifiers + PWR BD	\$18,300	\$18,300
Wideband	Comm EQ		Operator Access Unit Orderwire	TA-1017/FSC	1		\$4,505	\$4,505
Wideband	Comm EQ		Orderwire Shelf With Modules		1			
Wideband	Comm EQ		Panel 48VDC Power Distribution		1			
Wideband	Comm EQ		Patch Module, Std. Digital Bantam	P/N 54603-108A0001	2		\$2,100	\$4,200
Wideband	Comm EQ		Battery System, Gel-Cell (24)	Exide	1	Set	\$60,000	\$60,000
Wideband	Comm EQ	Alcatel	Radio Alcatel w/SONET Shelf	MDR-4308	1	Serial # 952-0444-206	\$85,468	\$85,468
Wideband	Comm EQ	Alcatel	Radio Alcatel w/SONET Shelf	MDR-4308	1	Serial # 952-0444-205	\$81,277	\$81,277
Wideband	Comm EQ	Puregas	Dehydrator	P-A5-SC-2	1		\$1,488	\$1,488
Power Pro	Power Equip	Fiat Iveco	Generator, Diesel, Standby	8041	2			
Power Pro	Power Equip	Elletroimpianti	Panel Automatic Transfer	A3000N	2	Panels D,E		
Power Pro	Power Equip	Elletroimpianti	Panel, Power, Main Distribution		3	Panels A,B,C		
Non EAID GOV Own	Utility		Tool Chest, 6 Drawer with tray, locking		1		\$677	\$677

**3.2.2. GHEDI TORRE**

FUNCTION	CATEGORY EQUIP	MANUFACTURE NAME	COMMON NAME	MODEL NUMBER	QTY	Remarks	Unit Cost	Total Cost
Wideband	Comm EQ	TM Systems Inc	Fuse Panel		1			
Wideband	Comm EQ		Panel, 48VDC Power Distribution		1			
Wideband	Comm EQ	Dehler Mfg.	Cabinet, Electrical Equipment	CY-597 A/G	2		\$1,200	\$2,400
Wideband	Comm EQ	C.F. Electronics Inc	Operator Access Unit, Orderwire	TA-1015	1		\$4,505	\$4,505
Wideband	Comm EQ	Ravan Electric	Orderwire Shelf with Modules	OA-9095	1			

Wideband	Comm EQ		Rack Equipment	MT-686/GR	1		\$1,195	\$1,195
Wideband	Comm EQ		Patch Module, Interbay		1			
Wideband	Comm EQ		Patch Module, 'K' Type		1			
Wideband	Power Equip	Exide	Battery System, Gel-Cell (24)	Dynacell DC 90-23 990AH	1		\$60,000	\$60,000
Wideband	Power Equip	Lorain	Rectifier/Power Supply System	Flotrol PP-7795/G	1		\$18,300	\$18,300
Wideband	Comm EQ	Alcatel	Radio Alcatel w/SONET Shelf	MDR-4308	1	Serial # 952-0444-212	\$85,468	\$85,468
Wideband	Comm EQ		ATM Switch	TNX-1100	1		\$57,295	\$57,295
Wideband	Comm EQ		Data Controller	F1080	1		\$615	\$615
Wideband	Comm EQ	Zyxel	Modem	U-1496-E	1		\$243	\$243.00
Wideband	Comm EQ	Datum Astron	BITS Clock	TSG-3800	1		\$14,673	\$14,673
Wideband	Comm EQ		Panel, Output Puleo	2207831-000	1		\$364	\$364
Wideband	Comm EQ	Coastcom	D4 Output Channel Bank (12 CH)	91419-312	1		\$4,638	\$4,638
Wideband	Comm EQ	Coastcom	D4 Output Channel Bank (24 CH)	91619-324	2		\$17,975	\$17,975
Wideband	Comm EQ		Bulk Encryption (OC-3)	KG-189	1	Serial # 408	\$48,000	\$48,000
Wideband	Comm EQ		Panel, Patch ADC (fiber 48 pos)	FL248RPNL	3		\$155	\$465
Wideband	Comm EQ		Modules, ADC Fiber Plug-in 6 pack	FL2-6PSMSC	16		\$54	\$872
Wideband	Comm EQ	Telect	Panel, Patch	DSX-1/I/C	1		\$95	\$95
Wideband	Comm EQ	Telect	Modules, RJ-48 to WW	010-2604-0305	14		\$283	\$3,968
Wideband	Comm EQ		Cable Tray, ADC	DSX-CT-19E	1		\$125	\$125
Wideband	Comm EQ		Fial Programmable Device	5560	1			
Power Pro	Power Equip	VM	Generator Set, Diesel, Standby	6130	2			
Power Pro	Power Equip	Rossi Gruppi	Panel, Automatic Transfer		2	Above each generator		
Power Pro	Power Equip	Rossi Gruppi	Panel, Power, Main Distribution		1			
Wideband	Comm EQ		Frame, Intermediate Distribution		1		\$5,000	\$5,000
Wideband	Comm EQ	Puregas	Dehydrator	P-A5-SC-2	1		\$1,488	\$1,488

### 3.2.3. MT CIMA GALLINA

FUNCTION	CATEGORY EQUIP	MANUFACTURE NAME	COMMON NAME	MODEL NUMBER	QTY	Remarks	Unit Cost	Total Cost
Wideband	Comm EQ	C.F. Electronics Inc	Operator Access Unit, Orderwire	TA-1017/FSC	1		\$4,505	\$4,505
Wideband	Comm EQ	Ravan Electric	Orderwire Shelf with Modules		1			
Wideband	Comm EQ		Panel, 48VDC Power Distribution		1			

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Wideband	Comm EQ	CSA Contract Systems	Patch Module, Std. Digital Bantam	P/N 54603-108A0001	2		\$2,100	\$4,200
Wideband	Comm EQ		Frame, Intermediate Distribution		1		\$5,000	\$5,000
Wideband	Power Equip	Lorain	Rectifier/Power Supply System	Flotrol	1	2 paralleled RHM100C50 Rectifiers + Pwr. Bd.	\$18,300	\$18,300
Wideband	Comm EQ	Dehler Mfg. Co.	Cabinet, Electrical Equipment	CY-597 A/G	2		\$1,200	\$2,400
Wideband	Comm EQ	Alcatel	Radio Alcatel w/SONET Shelf	MDR-4308	1	Serial # 952-0444-223	\$85,468	\$85,468
Wideband	Comm EQ	Alcatel	Radio Alcatel w/SONET Shelf	MDR-4308	1	Serial # 952-0444-224	\$85,468	\$85,468
Wideband	Comm EQ	Puregas	Dehydrator	A5-SC	1		\$1,488	\$1,488

### 3.2.4. MT CIMONE

FUNCTION	CATEGORY EQUIP	MANUFACTURE NAME	COMMON NAME	MODEL NUMBER	QTY	Remarks	Unit Cost	Total Cost
Wideband	Power Equip	Exide	Battery System, Gel-Cell (24)	Dynacell DC 90-23 990AH	1		\$60,000	\$60,000
Wideband	Comm EQ	Alcatel	Radio Alcatel w/SONET Shelf	MDR-4308	1	serial # 952-0444-215	\$85,468	\$85,468
Wideband	Comm EQ	Alcatel	Radio Alcatel w/SONET Shelf	MDR-4308	1	serial # 952-0444-218	\$85,468	\$85,468
Non EAID GOV Own	Appliance		Heater Space Electric 220v, 2000w		1		\$80	\$80
Wideband	Comm EQ	Dehler Mfg.	Cabinet Electrical Equipment	CY-597 A/G	1		\$1,195	\$1,195
Wideband	Comm EQ	Puregas	Dehydrator	A5 SC	1		\$1,488	\$1,488
Wideband	Comm EQ		Frame Intermediate Distribution		1		\$5,000	\$5,000
Wideband	Comm EQ	C.F. Electronics Inc	Operator Access Unit Orderwire	TA-1017/FSC	1		\$4,505	\$4,505
Wideband	Comm EQ	Ravan Electric Corp	Orderwire Shelf with Modules		1			
Wideband	Comm EQ		Panel 48VDC Power Distribution		1			
Wideband	Comm EQ	CSA Control Systems	Patch Module, Std. Digital Bantam	P/N 54603-108A0001	2		\$2,100	\$4,200
Wideband	Power Equip	Lorain	Rectifier/Power Supply System	Flotrol	1	2 Paralleled RHM100C50 Rectifiers + PWR BD	\$18,300	\$18,300

### 3.2.5. MT CORNA

FUNCTION	CATEGORY EQUIP	MANUFACTURE NAME	COMMON NAME	MODEL NUMBER	QTY	Remarks	Unit Cost	Total Cost
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Wideband	Comm EQ		Radio Alcatel W/SONET Shelf	MDR-4308	1	Serial # 952-0444-214	\$85,468	\$85,468
Wideband	Comm EQ		Radio Alcatel W/SONET Shelf	MDR-4308	1	Serial # 952-0444-211	\$85,468	\$85,468
Wideband	Comm EQ		Radio Alcatel W/SONET Shelf	MDR-4308	1	Serial # 952-0444-216	\$85,468	\$85,468
Wideband	Comm EQ		Radio Alcatel W/SONET Shelf	MDR-4308	1	Serial # 952-0444-213	\$81,277	\$81,277
Wideband	Comm EQ	Coastcom	D4 Output Channel Bank (12 CH)	91419-312	2		\$15,845	\$31,690
Wideband	Comm EQ	Coastcom	D4 Output Channel Bank (24 CH)	91619-324	1		\$9,600	\$9,600
Wideband	Comm EQ		Bulk Encryption (OC-3)	KG-189	4	Serial # 410, 415, 416, 419	\$48,000	\$192000
Wideband	Comm EQ	Compaq	Notebook	1270	3	Serial # 1V93CGX4D1F2, and 1V93CGX4D221	\$329	\$987
Wideband	Comm EQ	Alcatel	Polling Engine	AE36S-1	1		\$35,000	\$35,000
Wideband	Comm EQ		ATM Switch	TNX1100/7.5DC	1	Serial # 00115135	\$63,797	\$63,797
Wideband	Comm EQ		Data Controller	F1080	1		\$615	\$615
Wideband	Comm EQ		Modem	U-1496-E	1		\$243	\$243
Wideband	Comm EQ		BITS Clock	TSG-3800	1		\$14,673	\$14,673
Wideband	Comm EQ		Panel, Output Puleo	2207831-000	1		\$364	\$364
Wideband	Comm EQ		Panel, Patch ADC (fiber 48 pos)	FL248RPNL	3		\$155	\$465
Wideband	Comm EQ		Modules, ADC Fiber Plug-in 6 pack	FL2-6PSMSC	24		\$54	\$1,305
Wideband	Comm EQ	Telect	Panel, Patch	DSX-1/I/C	2		\$95	\$190
Wideband	Comm EQ	Telect	Modules, RJ-48 to WW	010-2604-0305	28		\$283	\$7,931
Wideband	Comm EQ		Cable Tray, ADC	DSX-CT-19E	2		\$125	\$250
Wideband	Comm EQ	C.F. Electronics	Operator Access Unit, Orderwire	TA-1015	1		\$4,505	\$4,505
Wideband	Comm EQ	C.F. Electronics	Orderwire Access Unit 925		1		\$4,505	\$4,505
Wideband	Comm EQ	Amphenol	Patch Panel, VF, Amphenol		8			
Wideband	Comm EQ	Alcatel	Transmission Systems Monitor	TSM-2500	1	includes monitor/Oki printer/CPU	\$23,713	\$23,713
Wideband	Comm EQ	Telesignal Corp	Cabinet, Steel, Electrical equipment	2263	2			
Wideband	Comm EQ	Ascom Warren	Panel, 48VDC Power Distribution		1			
Wideband	Comm EQ	Dehler Mfg. Co.	Cabinet, Steel, Electrical Equipment	CY-597 A/G	1		\$1,195	\$1,195
Wideband	Comm EQ	Verstron	Clock Distribution System	CDS-10	1		\$6,435	\$6,435
Wideband	Comm EQ	Willmore	Converter, DC/DC	1385	1			
Wideband	Comm EQ	Austron	Disciplined Frequency Standard	2010B	2		\$3,388	\$6,776
Wideband	Comm EQ	Austron	Frequency Multiplier	6016	1		\$2,100	\$2,100

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Wideband	Comm EQ	Austron	Power Supply, Standby	1290	1		\$18,300	\$18,300
Wideband	Comm EQ	TrueTime	Receiver, Global Positioning System	GPS-DC	2		\$16,000	\$32,000
Wideband	Comm EQ		Frame, Intermediate Distribution (IDF)		1		\$5,000	\$5,000
Wideband	Comm EQ	Puregas	Dehydrator	A5-SC-20	1		\$1,488	\$1,488
Wideband	Comm EQ	General Cable	Compressor	A5SC-2	1		\$3,777	\$3,777
Wideband	Comm EQ	Andrews	Manifold, 4 Port Assy.	6600D-4	2	on wall above compressor	\$255	\$510
Wideband	Power Equip	Absolyte	Battery System, Gel-Cell (24)		1		\$60,000	\$60,000
Wideband	Power Equip	Lorain	Rectifier/Power Supply System	PP-7696/U	1	2 paralleled RHM100C50 Rectifiers +PWR BD	\$18,300	\$18,300
Power Pro	Power Equip	Elletoimpianti	Generator Set, Diesel, Standby	8061SI16	2		\$7,000	\$14,000
Power Pro	Power Equip	Elletoimpianti	Panel, Automatic Transfer	A3000N	2			
Power Pro	Power Equip	Elletoimpianti	Panel, Power, Main Distribution		4			
Power Pro	Power Equip	ATT	Panel, Supervisory		1			
Computers / FAX / Copier	Computer	Dell	CPU System 1	GX-240	1	Serial # 21V1X01	\$1,200	\$1,200
Computers / FAX / Copier	Computer	Dell	Monitor System 1	M991	1	Serial # MX-05C544-47801-197-H1U5	\$700	\$700
Computers / FAX / Copier	Computer	LexMark	Printer, Laser, System 1	#001	1	Serial # 11-M6181	\$1,299	\$1,299
Computers / FAX / Copier	Computer	Daker	UPS, System 1	DK 120S	1	Serial # EB386A732	\$99	\$99
Computers / FAX / Copier	Computer	Dell	CPU System 2	GX-240	1	Serial # 14V1X01	\$1,000	\$1,000
Computers / FAX / Copier	Computer	Gateway	Monitor System 2	EV-700	1	Serial # LIC04900312	\$700	\$700
Computers / FAX / Copier	Computer	APC	UPS, System 2	APC-650	1	serial # PB0228220775	\$170	\$170
Computers / FAX / Copier	Computer	Dell	CPU System 3	GX-240	1	Serial # CZT1X01	\$1,200	\$1,200
Computers / FAX / Copier	Computer	Dell	Monitor System 3	M991	1	Serial # MX-05C544-47801-197-HITS	\$700	\$700
Computers / FAX / Copier	Computer	LexMark	Printer, Laser, System 3	Optra S	1	Serial # 11-M2833	\$1,299	\$1,299

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Computers / FAX / Copier	Computer	APC	UPS, System 3	PRO 1000	1	Serial # QB0228120049	\$455	\$455
Computers / FAX / Copier	Computer	Gateway	CPU System 4	GP7-500	1	Serial # 001778064	\$1,450	\$1,450
Computers / FAX / Copier	Computer	Gateway	Monitor System 4	EV-700	1	Serial # 17054D015140	\$1,111	\$1,111
Computers / FAX / Copier	Computer	Gateway	CPU System 5	GP7-500	1	Serial # 0017860437	\$1,450	\$1,450
Computers / FAX / Copier	Computer	Gateway	Monitor System 5	EV-700	1	Serial # LIC04704309	\$300	\$300
Computers / FAX / Copier	Computer	Hewlett-Packard	Printer, Laser, System 5	LaserJet 2100M	1	Serial # USGY010543		
Computers / FAX / Copier	Computer	Dell	CPU System 6	GX-240	1	Serial # 90V1X01	\$1,880	\$1,880
Computers / FAX / Copier	Computer	Dell	Monitor System 6	M991	1	Serial # MX-05C544-47801-195-HOWN	\$300	\$300
Computers / FAX / Copier	Computer	APC	UPS, System 6	APC-650	1	serial # PB0228220385	\$170	\$170
Computers / FAX / Copier	Computer	Gateway	CPU System 7	GP7-450	1	Serial # 0016204077	\$1,111	\$1,111
Computers / FAX / Copier	Computer	Dell	Monitor System 7	M991	1	Serial # MX-05C544-47801-195-HOVP	\$300	\$300
Computers / FAX / Copier	Computer	APC	UPS, System 7	APC-650	1	serial # PB0210120547	\$170	\$170
Computers / FAX / Copier	Computer	Gateway	CPU System 8	GP7-450	1	Serial # 00162D4103	\$1,111	\$1,111
Computers / FAX / Copier	Computer	Gateway	Monitor System 8	EV-700	1	Serial # 17054D015027	\$300	\$300
Computers / FAX / Copier	Computer	APC	UPS, System 8	APC-650	1	serial # PB0228220767	\$170	\$170
Computers / FAX / Copier	Computer	Gateway	CPU System 9	M1000	1	Serial # 0022680906	\$1,880	\$1,880
Computers / FAX / Copier	Computer	Gateway	Monitor System 9	EV-700	1	Serial # LIC04727569	\$300	\$300
Computers / FAX / Copier	Computer	Hewlett-Packard	Printer, Laser, System 9	LaserJet 1100	1	Serial # USLD071981	\$1,000	\$1,000
Computers / FAX / Copier	Computer	APC	UPS, System 9	PRO650	1		\$242	\$242
Computers /	Computer	Optra	Printer, Laser, Network	RNO	1	Serial # 11GBN10	\$1,517	\$1,517

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FAX / Copier								
Computers / FAX / Copier	Computer	Hewlett-Packard	Printer, Laser	LaserJet 1100	1	Serial # USLE071628	\$1,000	\$1,000
Computers / FAX / Copier	Computer	APC	UPS, Tele Switch Cabinet	PRO 1000	1	Serial # QB0228120281	\$455	\$455
Computers / FAX / Copier	Computer	Daker	UPS	DKS 120S	1	Serial # EB386A731	\$99	\$99
Computers / FAX / Copier	Computer	Hewlett-Packard	Printer, Laser	USCR 324798	1		\$600	\$600
Non EAID GOV Own	Utility	Fini	Compressor, Portable		1		\$200	\$200
Non EAID GOV Own	Utility	Lista	Tool Cabinet, 8 Drawer., Locking		1		\$677	\$677
Non EAID GOV Own	Utility		Tool Chest 6 drawer with Tray		1		\$677	\$677
Non EAID GOV Own	Utility		Workbench, with Vise, 1 Drawer		1		\$250	\$250
Non EAID GOV Own	Furniture	Mosler	Safe, 5 Drawer		1		\$250	\$250
Computers / FAX / Copier	Office Equip	IBM	Typewriter, Electric	Wheelwriter 15	1		\$225	\$225
Other Functions	Landscaping	Bunton	Lawnmower, Riding		1		\$1,500	\$1,500
Other Functions	Landscaping	Honda	Lawnmower, Riding	3011	1		\$1,500	\$1,500
Computers / FAX / Copier	Office Equip	Olivetti	FAX Machine	OFX-500	1	Serial # OASC5055758	\$150	\$150
Comp/FAX/Copier	Office Equip	Xerox	Copier, Paper	X214	1	Serial # 2135931139	\$10,000	\$10,000
Comp/FAX/Copier	Office Equip	IBM	Typewriter, Electric	Wheelwriter 70 Series II	1	Serial #11-X7552	\$225	\$225
Non EAID GOV Own	Entertain	JVC	53" TV Rear Projection	8710565	1	Serial # 8710565	\$1,500	\$1,500
Non EAID GOV Own	Entertain	Fracarro	Satellite Receiver	DSQ650	1		\$250.00	\$250
Non EAID GOV Own	Entertain	Panasonic	VCR, Multi-System, VHS	J700	1	Serial # A3MA00218	\$320.00	\$320
Wideband	Test EQ	Hewlett Packard	Attenuator	3750A	1	Serial # 1050U04504	\$995	
Wideband	Test EQ	Narda	Attenuator	768-20	1	Serial # 0006	\$75	

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Wideband	Test EQ	Narda	Attenuator	757C30	1	Serial # 158	\$75
Wideband	Test EQ	Narda	Attenuator	757C30	1	Serial # H0740	\$75
Wideband	Test EQ	Narda	Attenuator RF Fixed	768-10	1	Serial # 7712	\$195
Wideband	Test EQ	Narda	Attenuator RF Fixed	768-10	1	Serial # 05474	\$195
Wideband	Test EQ	Narda	Attenuator RF Fixed	768-10	1	Serial # 00002	\$195
Wideband	Test EQ	Narda	Attenuator RF Fixed	768-10	1	Serial #	\$195
Wideband	Test EQ	Midwest Microwave	Attenuator Set	3551	1	Serial # 2342	\$300
Wideband	Test EQ	Telecomm Technique	Communications Analyzer	Fireberd 6000	1	Serial # 11753	\$15,412
Wideband	Test EQ	Telecomm Technique	Communications Analyzer	Fireberd 6000	1	Serial # AJHJW0610025	\$15,412
Wideband	Test EQ	Telecomm Technique	Communications Analyzer	Fireberd 6000	1	Serial # AJHJW0610033	\$15,412
Wideband	Test EQ	Hekimian	Communications Test System	3701	1	Serial # 4014	\$10,620
Wideband	Test EQ	Hekimian	Communications Test System	3705-22.25/.41	1	Serial # 5337	\$16,530
Wideband	Test EQ	Hekimian	Communications Test System	3705-22.25/.41	1	Serial # 5256	\$16,530
Wideband	Test EQ	Hekimian	Communications Test System	3701	1	Serial #	\$10,620
Wideband	Test EQ	Fluke	Digital Multimeter	AN/PSM-45A	1	Serial # 4780598	\$749
Wideband	Test EQ	Fluke	Digital Multimeter	27/FM	1	Serial # 6530079	\$369
Wideband	Test EQ	Weinschel	Fixed Attenuator	2-20	1	Serial # U1369	\$352
Wideband	Test EQ	Weinschel	Fixed Attenuator	2-20	1	Serial # AA1459	\$352
Wideband	Test EQ	Weinschel	Fixed Attenuator	2-20	1	Serial # X820	\$352
Wideband	Test EQ	Weinschel	Fixed Attenuator	2-20	1	Serial # AF1558	\$352
Wideband	Test EQ	Weinschel	Fixed Attenuator	2-20	1	Serial # 0828	\$352
Wideband	Test EQ	Weinschel	Fixed Attenuator	2-20	1	Serial # 0790	\$352
Wideband	Test EQ	Weinschel	Fixed Attenuator	2-20	1	Serial # AG9763	\$352
Wideband	Test EQ	Midwest Microwave	Fixed Coaxial Attenuator Set	3551	1	Serial # 3122	\$300
Wideband	Test EQ	Midwest Microwave	Fixed Coaxial Attenuator Set	3551	1	Serial # 3089	\$300
Wideband	Test EQ	Weinschel	Fixed Coaxial Attenuator Set	AS6	1	Serial # 02721	\$550
Wideband	Test EQ	Agilent	Freq Counter/Power Meter	53147A	1	Serial # US40470401	\$11,325
Wideband	Test EQ	Agilent	Freq Counter/Power Meter	53147A	1	Serial # US40470400	\$11,325

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Wideband	Test EQ	Agilent	Freq Counter/Power Meter	53147A	1	Serial # US40470394	\$11,325
Wideband	Test EQ	Hewlett Packard	Frequency Counter	5383A	1	Serial # 2148A05279	\$850
Wideband	Test EQ	Hewlett Packard	Frequency Counter	5383A	1	Serial # 2148A05174	\$850
Wideband	Test EQ	EIP	Microwave Frequency Counter	548A	1	Serial # 00930	\$15,367
Wideband	Test EQ	EIP	Microwave Frequency Counter	548A	1	Serial # 01917	\$15,367
Wideband	Test EQ	EIP	Microwave Frequency Counter	548A	1	Serial # 00894	\$15,367
Wideband	Test EQ	EIP	Microwave Frequency Counter	548A	1	Serial # 01822	\$15,367
Wideband	Test EQ	Fluke	Multimeter	87	1	Serial # 62990728	\$349
Wideband	Test EQ	Fluke	Multimeter	87 Cat III	1	Serial # 67780563	\$349
Wideband	Test EQ	Fluke	Multimeter	87 Cat III	1	Serial # 67780562	\$349
Wideband	Test EQ	Digital Lightwave	Network Information Computer	ASA312	1	Serial # 31211992430	\$11,150
Wideband	Test EQ	Tektronix	Oscilloscope	2246	1	Serial # B115746	\$1,066
Wideband	Test EQ	Tektronix	Oscilloscope	2246	1	Serial # B102296	\$1,066
Wideband	Test EQ		Postal Scale	858	1	Serial # 14926	\$233
Wideband	Test EQ	Hewlett Packard	Power Meter	436A	1	Serial # 1930A06494	\$2,981
Wideband	Test EQ	Hewlett Packard	Power Meter	436A	1	Serial # 2347A17508	\$2,981
Wideband	Test EQ	Hewlett Packard	Power Meter	436A	1	Serial # 1918A05177	\$2,981
Wideband	Test EQ	Hewlett Packard	Power Meter	436A	1	Serial # 2709A31300	\$2,981
Wideband	Test EQ	Hewlett Packard	Power Meter	436A	1	Serial # 2709A31343	\$2,981
Wideband	Test EQ	Hewlett Packard	Power Meter	436A	1	Serial # 2709A26989	\$2,981
Wideband	Test EQ	Hewlett Packard	Power Meter	436A	1	Serial # 2709A27034	\$2,981
Wideband	Test EQ	Hewlett Packard	Power Sensor	8481A	1	Serial # 2702A58676	\$650
Wideband	Test EQ	Hewlett Packard	Power Sensor	8481A	1	Serial # 354	\$650
Wideband	Test EQ	Hewlett Packard	Power Sensor	8481A	1	Serial # 3318A83854	\$650
Wideband	Test EQ	Hewlett Packard	Power Sensor	8481A	1	Serial # 2349A42370	\$650
Wideband	Test EQ	Hewlett Packard	Power Sensor	8481A	1	Serial # 3318A84224	\$650
Wideband	Test EQ	Hewlett Packard	Power Sensor	8481A	1	Serial # 2702A59663	\$650
Wideband	Test EQ	Hewlett Packard	Power Supply	6296A	1	Serial # 3602A-06685	\$895
Wideband	Test EQ	Fluke	Scopemeter	199C	1	Serial # DM8200085	\$2,990
Wideband	Test EQ	Fluke	Scopemeter	199C	1	Serial # DM8200028	\$2,990
Wideband	Test EQ	Hewlett Packard	Spectrum Analyzer	8569B	1	Serial # 2433A01826	\$20,453

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Wideband	Test EQ	Hewlett Packard	Synthesized Signal Generator	8673B	1	Serial # 2918A01458	\$24,280
Wideband	Test EQ	Hewlett Packard	Synthesized Signal Generator	8673B	1	Serial # 2823A01351	\$24,280
Wideband	Test EQ		Torque Wrench	1501	1	Serial # 112539	\$161
Wideband	Test EQ	Staco	Variable Power Supply	033-3612	1	Serial # 8330	\$249

### 3.2.6. MT PAGANELLA

FUNCTION	CATEGORY EQUIP	MANUFACTURE NAME	COMMON NAME	MODEL NUMBER	QTY	Remarks	Unit Cost	Total Cost
Non EAID GOV Own	Utility		Heater, Space, Oiled Filled, Electric		2		\$80.00	\$160
Wideband	Comm EQ	Alcatel	Radio Alcatel W/SONET Shelf	MDR-4308	1	Serial # 952-0444-217	\$85,468	\$85,468
Wideband	Comm EQ	Alcatel	Radio Alcatel W/SONET Shelf	MDR-4308	1	Serial # 952-0444-217	\$85,468	\$85,468
Wideband	Comm EQ	Dehler Mfg. Co.	Cabinet, Electrical Equipment	CY-597 A/G	1		\$1,195	\$1,195
Wideband	Comm EQ	Puregas	Dehydrator	A5-SC	1		\$1,488	\$1,488
Wideband	Comm EQ		Frame, Intermediate Distribution (IDF)		1		\$5,000	\$5,000
Wideband	Comm EQ	C.F. Electronics	Operator Access Unit, Orderwire	TA-1017/FSC	1		\$4,505	\$4,505
Wideband	Comm EQ	Ravan Electric	Orderwire Shelf with Modules		1			
Wideband	Comm EQ		Panel, 48VDC Power Distribution		1			
Wideband	Comm EQ	CSA Contract Systems	Patch Module, Std. Digital Bantam	P/N 54603- 108A0001	1		\$2,100	\$2,100
Wideband	Power EQ		Battery System, Gel-Cell (24)		1		\$60,000	\$60,000
Wideband	Power EQ	Lorain	Rectifier/Power Supply System	Flotrol	1	2 paralleled RHM100C50 Rectifiers + Pwr. Bd.	\$18,300	\$18,300
Power Pro	Power EQ	IVECO	Generator, Diesel, Standby	8061	2		\$7,000	\$14,000
Power Pro	Power EQ	Marconi	Panel, Automatic Transfer	MP4002	2			
Power Pro	Power EQ		Panel, Parallel		1			
Power Pro	Power EQ	Marconi	Panel, Power, Main Distribution		1			
Non EAID GOV Own	Utility		Tool chest 6 drw. w/ tray (gray)	Stack-On	1		\$677.00	\$677

### 3.2.7. MT SERRA

FUNCTION	CATEGORY	MANUFACT	COMMON NAME	MODEL	QT	Remarks	Unit	Total
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	RY EQUIP	URE NAME		NUMBER	Y		Cost	Cost
Wideband	Comm EQ	Alcatel	Radio Alcatel W/SONET Shelf	MDR-4308	1	serial # 952-0444-219	\$85,468	\$85,468
Wideband	Comm EQ	Alcatel	Radio Alcatel W/SONET Shelf	MDR-4308	1	serial # 952-0444-220	\$85,468	\$85,468
Wideband	Comm EQ	Puregas	Dehydrator	A5 SC	1		\$1,488	\$1,488
Wideband	Comm EQ		Frame, Intermediate Distribution (IDF)		1		\$5,000	\$5,000
Wideband	Comm EQ	C.F. Electronics Inc	Operator Access Unit, Orderwire	TA-1017/FSC	1		\$4,505	\$4,505
Wideband	Comm EQ	Ravan Electric Corp.	Orderwire Shelf with Modules		1			
Wideband	Comm EQ		Panel, 48VDC Power Distribution		1			
Wideband	Comm EQ	CSA Contract Systems	Patch Module, Std. Digital Bantam	P/N 54603-108A0001	1		\$2,100	\$2,100
Wideband	Power EQ	Absolyte	Battery System, Gel-Cell (24)	GNB	1		\$60,000	\$60,000
Wideband	Power EQ	Lorain	Rectifier/Power Supply System	Flotrol PP-7695	1	2 paralleled RHM100C50 Rectifiers + PWR BD	\$18,300	\$18,300
Power Pro	Power EQ	VM	Generator Set, Diesel, Standby	VM 4105	1			
Power Pro	Power EQ	Electaimpianti	Panel, Automatic Transfer	A3000N	1			
Power Pro	Power EQ		Panel, Power, Main Distribution		1			
Non EAID GOV Own	Utility		Tool Chest 6 Drawer with Tray		1		\$677	\$677

Deleted: Wideband ... [2]

3.2.8. MT VENDA

FUNCTION	CATEGO RY EQUIP	MANUFACT URE NAME	COMMON NAME	MODEL NUMBER	QT Y	Remarks	Unit Cost	Total Cost
Wideband	Comm EQ	Alcatel	Radio Alcatel W/SONET Shelf	MDR-4308	1	serial # 952-0444-208	\$81,277	\$81,277
Wideband	Comm EQ	Alcatel	Radio Alcatel W/SONET Shelf	MDR-4308	1	serial # 952-0444-207	\$85,468	\$85,468
Wideband	Comm EQ	Alcatel	Radio Alcatel W/SONET Shelf	MDR-4308	1	serial # 952-0444-210	\$85,468	\$85,468
Wideband	Comm EQ		ATM Switch	TNX-1100/DC-4	1		\$63,797	\$63,797
Wideband	Comm EQ	Fastcom	Data Controller	F1080	1		\$615	\$615
Wideband	Comm EQ	Zyxel	Modem	U-1496-E	1		\$243	\$243
Wideband	Comm EQ	Datum Austron	BITS Clock	TSG-3800	1		\$14,673	\$14,673
Wideband	Comm EQ		Panel, Output Puleo	2207831-000	1		\$364	\$364
Wideband	Comm EQ	Coastcom	D4 Output Channel Bank (12 CH)	91419-312	1		\$13,607	\$13,607

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Wideband	Comm EQ	Coastcom	D4 Output Channel Bank (12 CH)	91419-312	1		\$13,607	\$13,607
Wideband	Comm EQ		Bulk Encryption (OC-3)	KG-189	3	Serial # 413, 409 & 421	\$48,000	144,000
Wideband	Comm EQ		Panel, Patch ADC (fiber 48 pos)	FL248RPNL	3		\$155	\$465
Wideband	Comm EQ		Modules, ADC Fiber Plug-in 6 pack	FL2-6PSMSC	24		\$54	\$1,305
Wideband	Comm EQ	Telect	Panel, Patch	DSX-1/1C	1		\$95	\$95
Wideband	Comm EQ	Telect	Modules, RJ-48 to WW	010-2604-0305	14		\$283	\$3,965
Wideband	Comm EQ		Cable Tray, ADC	DSX-CT-19E	1		\$125	\$125
Wideband	Comm EQ	Dehler Mfg. Co.	Cabinet Electrical Equipment	CY-597 A/G	4		\$1,195	\$4,780
Wideband	Comm EQ	Verstron	Clock Distribution System	CDS-10	1		\$6,435	\$6,435
Wideband	Comm EQ	Wilmore	Converter DC/DC	1385	1			
Wideband	Comm EQ	Austron	Disciplined Frequency Standard	2010B	2		\$3,388	\$6,776
Wideband	Comm EQ	Austron	Frequency Multiplier	6016	1		\$2,100	\$2,100
Wideband	Comm EQ	Austron	Power Supply Standby	1290	1		\$18,300	\$18,300
Wideband	Comm EQ	TrueTime	Receiver, Global Positioning System	GPS-DC	1		\$16,000	\$16,000
Wideband	Comm EQ	C.F. Electronics Inc	Operator Access Unit Orderwire	TA-1017/FSC	1		\$4,505	\$4,505
Wideband	Comm EQ	Ravan Electric Corp	Orderwire Shelf with Modules		1			
Wideband	Comm EQ		Panel 48VDC Power Distribution		2			
Wideband	Comm EQ	CSA Control Systems	Patch Module, Std. Digital Bantam	P/N 54603-108A0001	1		\$2,100	\$2,100
Wideband	Power Equip	Exide	Battery System, Gel-Cell (24)	Dynacell DC 90-23 990AH	1		\$60,000	\$60,000
Wideband	Power Equip	Lorain	Rectifier/Power Supply System	Flotrol	1	2 Paralleled RHM100C50 Rectifiers + PWR BD	\$18,300	\$18,300
Wideband	Comm EQ	Puregas	Dehydrator	P-A5-SC-2	1		\$1,488	\$1,488
Wideband	Comm EQ		Frame Intermediate Distribution		1		\$5,000	\$5,000
Non EAID GOV Own	Appliance		Heater Space, Oil Filled, Electric		2		\$80.00	\$160
Non EAID GOV Own	Furniture		Cabinet, Steel, 49 Drawers		1			
Power Production	Power Equip	Electraimpian i	Generator Diesel Standby		2			
Power Production	Power Equip	Electraimpian i	Panel Automatic Transfer		2			
Power	Power	Sirti	Panel Power Main Distribution		1			

Statement of Work  
Section III Government Furnished Property and Service



Production	Equip							
Non EAID GOV Own	Utility		Tool Chest, Mechanics, 6 Drawer with Tray		1		\$677.00	\$677.00
Non EAID GOV Own	Utility		Work Bench 4' with Vise		1		\$250.00	\$250.00
Non EAID GOV Own	Utility		Work Bench 6'		1		\$200.00	\$200.00

### 3.2.9. AVIANO AB (PAS)

FUNCTION	CATEGORY EQUIP	Manufacturer	Name	Model Number	QTY	Remarks	UNIT COST	TOTAL COST
Base GV	Audio	Any	60' Class II Pole	None	10	Corrosion Control only		
Base GV	Audio	Whelen	9 stack speaker Cells	WPS-2809	9			
Base GV	Audio	Whelen	2 stack speaker Cells	WPS-2802	1			
Base GV	Audio	Whelen	Siren Case	11-480257-004	10	Corrosion Control only		
Base GV	Audio	Whelen	Motherboard	Unknown	10			
Base GV	Audio	Whelen	Power Amplifiers	01-0285548-00J	83	Or equivalent Part #		
Base GV	Audio	Whelen	Electronic Siren Controller	ESC-864	10	Or Equivalent Part #		
Base GV	Radio	Whelen	Radio Receiver/Transmitter	Unknown	10	On Pole Radio		
Base GV	Radio	Whelen	Antenna	75-0115618	10	On Pole Radio		
Base GV	Radio	Whelen	Antenna Bracket	07-280324-000	10	On Pole Radio		
Base GV	Power	Optima	12 V Gel Cell Battery	1000 CA	40	In Series Parallel for 24V		
Base GV	Control	Whelen	Central ControlStation	E-2010	2	Command Post		
Base GV	Control	Whelen	Encoder	E-969	1	Command Post		
Base GV	Control	Motorola	Desktrac		1	Used as a backup.		
Base GV	Power	Whelen	Battery Charger/AC-DC Converter	01-0285702-00B	10	Charges Batteries		
Base GV	Audio		DormitorySpeakers/Horns		475			

**3.2.10. EQUIPMENT INVENTORY.** Contractor and a Government representative (identified by the CO) shall conduct a joint GFE inventory no later than five calendar days prior to start of work under this contract, with ten calendar days of the start of any option periods, and not later than ten calendar days before completion of the contract period (including any options periods). Contractor shall sign a receipt for all equipment provided by the Government. Contractor and the Government representative shall jointly determine the working order and condition of all equipment and document their findings on the inventory. The Government will replace missing items and repair all items not in working order, or the Administrative Contracting Officer (ACO) will direct the contractor to replace the missing items(s), or accomplish the repair and the contractor shall be reimbursed thereafter. The Government representative shall certify their agreement as to the working order of the equipment. Obtaining

Additional or Replacement Equipment. Contractor shall submit requests for additional or replacement GFE to the QAP for processing. Such requests shall specify the reason for the replacement request. Contractor shall use AF Form 601 (*Equipment Action Request*) to request the equipment. Contractor shall record items of equipment missing or not in working order, subsequent to the joint inventory and the ACO shall be notified in writing.

**3.2.11. Equipment (LEASED).** NONE

**3.2.12. Equipment (NON-EAID).** See inventory listing

**3.3. GOVERNMENT FURNISHED MATERIAL.** The Government will provide an initial quantity of spare parts and bench stock. Subsequent requirements will be processed through Air Force and other supply channels.

**3.4. GOVERNMENT-FURNISHED SERVICES.** Contractor will not be required to reimburse the Government for the cost of the following services. Notwithstanding the services listed below, the contractor shall perform all tasks identified in this contract.

**3.4.1.** Government-Furnished Utilities. Including electricity, gas, water, sewage, and refuse (dumpster/trashbin) collection.

**3.4.2.** Telephone Services: One direct-dial, routine precedence, Defense Switched Network (DSN) capable telephone line at each government provided service facility. Dial access will be restricted to allow routine DSN contact between the service facility and other service locations within the awarded contracting zone(s). This service is provided strictly for the purpose of completing the requirements of this contract (e.g., coordinate response to outage, parts/labor support, etc.).

**3.4.3.** Security Police and Fire Protection at MOBs.

**3.4.4.** Limited emergency medical services – during normal operating hours, on a reimbursable basis.

**3.4.5.** Internet Access (Official Use Only)

**3.5. GOVERNMENT PROVIDED TRAINING.** Contractor is required to ensure appropriate personnel are identified and attend all appropriate specialized or updated technical training offered by the Government and provide a list of attendee names five days before training starts to the ACO. Contractor shall provide level one and two hazardous material training for, as applicable, all contractor personnel IAW Air Force Occupational Safety and Health Administration (AFOSH) standards.

## **SECTION IV GENERAL INFORMATION**

**4.1. GENERAL INFORMATION.** In addition to the description of services provided in section I, contractor shall perform the following general tasks.

**4.2. PHASE-IN.** During contract phase-in, contractor shall perform all tasks required to commence full performance of services at the beginning of the basic contract period. Contractor shall develop and provide an effective phase-in plan addressing all elements, including but not limited to Telephone Control Plan, Property Control Plan, Quality Control Plan, Security Plan, Safety Plan, and Employee Listing to the CO (Reference TE-4). During phase-in period, contractor shall request and obtain all required base access passes and security access badges from host base security forces Pass and ID section.

**4.3. CONTRACTOR PERSONNEL:**

**4.3.1.** Contractor shall not employ a person for work under this contract if such a person is identified to the contractor by the Administrative Contract Officer (ACO) as a potential threat to the health, safety, security, general well being or operational mission of the installation and its population. Contractor shall not employ any person who is an employee of the United States (US) Government if the employment of that person would create a conflict of interest. In the event it becomes necessary to replace any contract personnel for any of the above reasons, contractor shall not be reimbursed for costs associated with such removal including the costs for replacement of personnel so removed. Contractor shall inform the host base communications flight or detachment commander within 24-hours and submit a written report as required by TE-4 within five working days of incidents of misconduct by their employees that violate the laws of the USA or Host Nation and may affect contract performance. Incidents that might lead to international problems between the USA and the Host Nation must also be reported within five workdays.

**4.3.2.** Contractor shall be responsible for obtaining any necessary licenses, permits, country/theater clearances, and entry authorizations to comply with any applicable U.S. and Host Nation laws, codes, and regulations. Contractor shall ensure employees maintain proper personal hygiene, as well as neat and professional dress and appearance while in the performance of their duties. Contractor employees shall be recognizable by wearing distinctive clothing, bearing the name of the company or by wearing appropriate badges, which contain the company name and employee name. Managers and supervisors' job titles shall be included on the badge in addition to the name.

**4.3.3.** The contractor shall provide employees who are qualified at the beginning of their employment. The personnel providing the services listed in this performance work statement shall have at a minimum the qualification and experiences to conduct the associated work they are hired to accomplish.

**4.3.3.1. CONTRACTOR PROVIDED TRAINING.** Contractor shall provide familiarization, not to include formal, training to government personnel. All requests for training shall be

received from the appropriate Communications Squadron Flight Chief, or detachment commander.

**4.3.3.2. GOVERNMENT PROVIDED TRAINING.** Government may provide formal training. Contractor thereafter shall be responsible for training all new employees. New contractor employees may attend formal training at contractor expense.

**4.3.4. Project Manager (Mandatory).** The Project Manager (PM) shall be responsible for the performance of all services within this SOW. The name of the person, who shall act for the contractor when the Project Manager is absent, shall be designated in writing to the CO at least three calendar days prior to the Project Manager's absence.

**4.3.5. SECURITY CLEARANCE INFORMATION.** Functions requiring security clearances are listed below:

**4.3.5.1. Project Manager**  
**Clearance.** U.S. Secret

**4.3.5.2 Communications Maintenance Technician**  
**Clearance.** U.S. Secret

**4.3.5.3. Systems Control Technician**  
**Clearance.** U.S. Secret

**4.3.5.4. Power Production**  
**Clearance.** U.S. Secret

**4.3.6. CITIZENSHIP.** Only US citizens shall perform maintenance and/or service on equipment, containing Cryptographic Controlled Items (CCIs), covered in this contract. Contractor must ensure protection of CCI equipment in accordance with DoD 5220.22-S, AFSSI 4001, and AFSAL 3005.

**4.4. QUALITY CONTROL (QC).** In compliance with the contract clause entitled *Inspection of Services - Fixed-Price* (FAR 52.246-4), contractor shall provide a QC Plan. This plan shall describe in detail the contractor's QC Program and shall be submitted no later than 30 calendar days after contract start. A draft plan shall be submitted with the proposal. The plan shall become a final document after review and acceptance by the CO.

**4.4.1. QUALITY ASSURANCE.** The Government will inspect the contractor's performance under this contract IAW *Inspection of Services-Fixed Price* (FAR 52.246-4). The CO may require the PM to meet with the ACO, contract administrator, QAP, and other government personnel when the CO deems it necessary. Contractor may request a meeting with the CO when he or she believes such a meeting is necessary. Written minutes of any such meetings shall be recorded and signed by the PM and the CO or contract administrator. If the contractor does not concur with any portion of the minutes, such non-concurrence shall be provided in writing to the CO within ten calendar days following receipt of the minutes.

**4.4.1.1. INSPECTIONS/EVALUATIONS/REVIEWS BY OTHER THAN QAP.** Contractor shall permit Department of Defense maintenance / measurement / inspection visits, QAP team visits, host base visits, other required functional reviews, evaluations or inspections as the government requires. Contractor shall ensure coordination with the QAP office and provide any assistance as necessary. Contractor shall be aware that this also includes MAJCOMs, DISA, Air Force Audit Agency, Inspector Generals Office, General Accounting Office or other government agencies.

**4.5. PHYSICAL SECURITY.** Contractor shall be responsible for safeguarding all government furnished property and equipment provided for contractor use. At the close of each work period, government facilities, equipment, and materials shall be secured. Contractor shall immediately report to the QAP or CO any lost or duplicated keys. In the event that keys are lost or duplicated, the contractor shall be required, upon direction of the CO, to re-key or replace the affected lock or locks without cost to the government. Contractor shall develop procedures covering key control and lock combination control that shall be included in the Security Plan.

**4.5.1. SHIPPING REQUIREMENTS.** When shipping DES and CCI equipped items, the contractor shall ship the items IAW AFI 33-275, AFSSI 4001 and AFSAL 3005.

**4.6. HOURS OF OPERATION.**

**4.6.1. ITALY.** Contractor shall perform requirements during normal hours (0730 – 1630), Monday through Friday, excluding American federal holidays at Mt Corna. However, the contractor shall also be on-call 24 hours a day 7 days a week including holidays for all sites. Note: helicopter transport may be limited or non-existent on Italian holidays.

**4.6.2. American Federal Holidays.**

New Year's Day	1 January
Martin Luther King Day	3 <sup>rd</sup> Monday in January
Presidents Day	3 <sup>rd</sup> Monday in February
Memorial Day	Last Monday in May
Independence Day	4 July
Labor Day	1 <sup>st</sup> Monday in September
Columbus Day	2 <sup>nd</sup> Monday in October
Veteran's Day	11 November
Thanksgiving	Fourth Thursday in November
Christmas	25 December

**4.7. CONSERVATION OF UTILITIES.** Contractor shall be responsible for operating under conditions, which precludes all waste of utilities.

**4.8. RECORDS.** Contractor shall be responsible for creating, maintaining, and disposing of only those government required records that are specifically cited in this SOW or required by the provisions of a mandatory directive listed in Tech Exhibit 3, Publications and Forms. If

requested by the government, the contractor shall provide the original record or a reproducible copy of any such record within five working days of receipt of the request.

**4.9. CONTINGENCY OPERATION WORKLOAD SURGE.** During contingency operations (e.g. Operation Joint Forge, Operation Enduring Freedom) the Government expects extended workload surges.

**4.10. MISSION ESSENTIAL SYSTEMS.** The host communications unit will identify mission-essential systems during initial phase-in.

**4.11. LOGISTIC PRIVILEGES FOR TECHNICAL REPRESENTATIVES.**

**4.11.1.** Commissary (including rationed items): available.

**4.11.2.** AAFES facilities (includes military exchange, theater, food concessions, etc.): available.

**4.11.3.** Class Six (alcoholic beverages, includes rationed items): available.

**4.11.4.** Customs exemptions and duty free importation of household goods: available.

**4.11.5.** Local services (morale, welfare, and recreation): available.

**4.11.6.** Military banking services: available.

**4.11.7.** Military postal services: available.

**4.11.8.** Mortuary services: available on a reimbursable basis.

**4.11.9.** Officer/non-commissioned officer clubs: available on a paid membership basis.

**4.11.10.** POV license: available upon completion of written test.

**4.11.11.** POV registration: available.

**4.11.12.** Petroleum and oil products (tax free): available.

**4.11.13.** Transient billets: available on a reimbursable and space available basis.

**4.11.14.** Messing facilities: available on a reimbursable basis.

**4.11.15.** Continuing education services: available, on a space-available, reimbursable basis.

**4.11.16.** Chapel services: available.

**4.11.17.** Dependent schools: available, on a space-available, tuition-paying basis.

**4.11.18.** Emergency medical and dental services: available on a reimbursable basis.

**4.11.19.** Firearm registration and control: not available under Italian law.

**4.11.20.** Pet registration: available.

**4.11.21.** Law enforcement: Depending on the particular installation, incidents and accidents on base may be handled by US Security Forces Police (SFP), Military Police (MP), or Italian law enforcement.

**4.11.22.** Travel and shipment of personal property via the defense transportation system: available on a reimbursable basis.

## **TECHNICAL EXHIBIT 1 DEFINITIONS/ABBREVIATIONS**

- 1.1. EQUIPMENT AUTHORIZATION INVENTORY DATA (EAID) ITEMS.** These items require formal supply property accountability and must be reflected on the organization's Custodian Authorization/Custody Receipt Listing (CA/CRL).
- 1.2. BACK-UP GENERATOR.** An electrical power-generating unit designated to provide electrical power to communications and utility systems on failure of commercial power or other prime generator.
- 1.3. COMMUNICATIONS-COMPUTER SYSTEMS INSTALLATION RECORDS (CSIR).** Records that consist of drawings, printed matter (i.e., charts, maps, diagrams, and schematics), and other related materiel necessary to completely describe the installed plant/facility equipment.
- 1.4. COMMUNICATIONS CONTROL OFFICE (CCO).** The CCO is responsible for tasks associated with the initial activation of a circuit and/or trunk, submitting completion reports and coordinating realignment of the circuit and/or trunk when necessary. A CCO is assigned to every circuit/trunk, for the life of the circuit/trunk. A CCO is designated in the Telecommunications Service Order (TSO).
- 1.5. EMERGENCY SERVICES:** Maintenance/repair requirements that constitute an immediate threat to the safety, health, or welfare of personnel or damage to property/equipment.
- 1.6. FACILITY CONTROL OFFICE (FCO).** The FCO is responsible for day-to-day operation and maintenance of GIG facilities within a designated geographic area.
- 1.7. GIG SITES.** Mt. Corna, Mt. Venda, Ceggia, Mt. Paganella, Mt. Cima Gallina, Mt. Cimone, Mt. Serra, Ghedi Torre.
- 1.8. INTERMEDIATE FACILITY CONTROL OFFICE (IFCO).** A facility assigned by the FCO to help fulfill the FCO mission. This assignment is made through coordination with the IFCO's chain of command and DISA-EUR. The FCO may assign specific duties to the IFCO.
- 1.9. INTERMEDIATE MAINTENANCE.** Maintenance that is the responsibility of and performed by designated maintenance activities in direct support of using organizations. Its phases normally consist of: calibration, repair, or replacement of damaged or unserviceable parts, components, or assemblies; the emergency manufacture of non-available parts; and providing technical assistance to using organizations.
- 1.10. LINK.** A transmission path operating between two successive equipment locations. In cable facilities, equipment locations are those points where cables terminate or branch. In radio systems, equipment locations are radio frequency (RF) repeaters, transmitters, or receivers. A link consists of one or more trunks.



**1.11. MAIN OPERATING BASE (MOB):** A support installation that provides management and support to base and supported site agencies.

**1.12. MISSION ESSENTIAL SYSTEMS.** The host unit will identify mission essential system response/restoral times.

**1.13. OPERATOR MAINTENANCE.** The replacement of lamps, fuses, performing lamp tests, and necessary checks to determine if the problem is in the equipment at the affected location or if the problem is at another location. Those maintenance actions required to ensure equipment and systems are operating at optimal efficiency between scheduled maintenance inspections. Operator maintenance includes, but is not limited to, replacing indicator lamps, adding oil to engines, tightening connections, replacing screws, replenishing liquids including petroleum products, cleaning and record keeping. Contractor shall adhere to any maintenance restrictions published in applicable equipment TOs.

**1.14. ORGANIZATIONAL MAINTENANCE.** The first level of maintenance performed *on-equipment* (directly on aerospace vehicles or support equipment). This type of maintenance generally includes minor repairs, inspection, testing or calibration.

**1.15. PLANT.** Used to describe buildings, utilities, power distribution systems, and alternate/emergency power production equipment.

**1.16. PREVENTIVE MAINTENANCE.** This term, or the single term “maintenance,” as referenced in this group of technical orders, is the normal upkeep and preservation of equipment through systematic inspection, detection and correction of discrepancies to prevent failures, to verify serviceability, or to restore complete serviceability of equipment that has been subjected to usage, wear and tear, or deterioration caused by environmental elements.

**1.17. REAL PROPERTY.** For purposes of accounting classification, real property means land and rights therein, utility distribution systems, buildings, structures, and improvements thereto excluding plant equipment. Real property includes supporting structures for communications-electronics equipment/systems, such as poles, guys, towers, underground ducts, manholes, hardstands, concrete footing, shelters, power production facilities and equipment, environmental control equipment, and other non-technical components.

**1.18. RESPONSE TIME.** The time interval between notification of services required and contractor arrival at the work site prepared to initiate repair tasks.

**1.19. SYSTEMS/TECHNICAL CONTROL FACILITY.** The SCF/TCF functions as the interface between the transmission elements of the GIG and the users of the system. It has the physical and electrical capability necessary to perform the required functions of a Technical Control Facility as outlined in DISAC 310-70-1, Chapter 2.

**1.20. TRUNK.** A single or multi-channel communications medium between two successive terminal facilities.

## TECHNICAL EXHIBIT 2 WORKLOAD ESTIMATES

**2. GENERAL.** The quantities of output to be furnished by the contractor, as stated herein, are estimates and as such, these, the Government's best estimates, are subject to variations. These estimates are not conclusive. These estimates are provided for the contractor to understand the full scope of workload to be performed during the hours of operation stated in Section 1 and at the sites listed in Section III. The table below lists overall functions and the sub-functions or tasks along the left side of table. Other unmanned sites are not listed separately but rather that workload is included within the main responsible base. The quantities provided below are events per month. Contractor shall provide, upon request, updated TE-2 workload estimates, including the impact of all modifications to estimates of the awarded contract to the QAPs. Contractor may state that the workload is more than 20% above government estimate and have adjustment made.

### 2.1 SYSTEM CONTROL / WIDEBAND SITES

		Mt Corna	Ceggia	Ghedi Torre	Mt Cima Gallina	Mt Cimone	Aviano	Mt Paganell a	Mt Serra	Mt Venda
Communications Maintenance	Scheduled maintenance	29/14	8/5	12/8	7/5	8/5		8/5	9/7	11/6
	Unscheduled maintenance (avg. all sites)	8/32								
	CAMS Input/maintenance documentation (avg. all sites)	30/30								
	Bench stock/forward supply point monitoring (avg. all sites)	10/20								
Systems Control	Outages	1/10		5/20						
	Circuit actions-write, track, file	1/5		1/5						
	Trend analysis	1/2		1/2						
	Report develop/submit	30/2		30/1						
PAS	Scheduled Maintenance						13/27			
	Unscheduled Maintenance						2/4			
Power Pro	Scheduled Maintenance	10/18	4/7	4/7	4/7			4/7	3/4	4/7

Statement of Work  
Technical Exhibit 2 Workload Estimates

	Unscheduled Maintenance	2/10	1/4	1/4	1/4			1/4	1/4	1/4
Other functions	Escort Duties	10 hours								
	Building/Facility custodian	1 hour								
	Project Support	1 hour								
	Admin/MSL/Filing	15 hours								
	Maintenance Control	25 hours								
	Materiel Control	25 hours								
	Support Runs	30 hours								
	Quality Support	40 hours								
Mileage estimate	110,000 miles annually									

Legend: 29/14 denotes Number of Occurrences/Total Hours for all Occurrences

### TECHNICAL EXHIBIT 3

#### PUBLICATIONS AND FORMS

**3. GENERAL.** Publications and forms applicable to this SOW are listed below. Contractor is obligated to follow those publications and use those forms to the extent specified in other sections of this SOW. Some publications and forms listed are available electronically via Internet. It is the responsibility of the contractor to establish follow-on requirements with the publication distribution office (PDO) if publications/forms are not available on the Internet. Supplements or amendments to listed publications from any organizational level may be issued during the life of the contract. Contractor shall immediately implement those changes in publications, which result in a decrease or no change in the contract price. Prior to implementing any such revision, supplement, or amendment that will result in an increase in contract price, the contractor shall submit to the CO a price proposal and obtain the prior approval of the CO. Said price proposal shall be submitted within 30 calendar days from the date the contractor receives notice of the revision, supplement, or amendment giving rise to the increase in cost of performance. Changes in the contract price due to supplements and amendments shall be considered under the "Changes" clause. Failure of the contractor to submit a price proposal within 30 calendar days from the date of receipt of any change shall entitle the Government to performance in accordance with such change at no increase in contract price. It is the contractor's responsibility to ensure that all publications and forms are posted and up-to-date. Upon completion of the contract, the contractor shall return to the government all issued publications.

#### 3.1. REQUIRED PUBLICATIONS

Publication No.	Title
<b>DOD</b>	
DODR 5200.1	DOD Information Security Program
DODD 4165.6	Real Property Acquisition, Management, And ...
DODD 4210.15	Hazardous Material Pollution Prevention
DODD 4640.13	Management Of Base And Long-Haul ...
DODD 5200.28	Security Requirements For Automated ...
DODD 5205.2	DoD Operations Security Program
DODD 5205.8	Access To Classified Cryptographic ...
DODDC 5200.5	Communications Security (COMSEC)
DODD 5220.22-S	COMSEC Supplement To Industrial Security Manual For Safeguarding Classified Information
DODI 4161.2	Management, Control, And Disposal Of ...
DODI 4165.14	Inventory Of Military Real Property
DODI 4640.14	Base And Long-Haul Telecommunications ...
DODM 4160.21	Defense Materiel Disposition Manual
DODR 4140.1	DoD Materiel Management Regulation
<b>AIR FORCE</b>	
AFEPL	Air Force Electronic Publishing Library/CD ...
AFCSM 21-556V1	Core Automated Maintenance System ...
AFH 31-103	Physical Security (FOUO)

AFI 21-102	Depot Maintenance Management
AFI 21-103	Equipment Inventory, Status, and Utilization Reporting
AFI 21-116	Maintenance Management Of ...
AFI 21-123	Air Force Gold Program
AFI 21-129	Two Level Maintenance And Regional Repair ...
AFI 21-404	Developing and Maintaining Communications and Information Systems Installation Records
AFI 23-105	Spares Breakout Program
AFI 23-106	Assignment And Use Of Standard Reporting ...
AFI 23-111	Management Of Government Property In ...
AFI 31-101	The Air Force Installation Security Program
AFI 31-601	Industrial Security Program Management
AFI 32-1031	Operations Management
AFI 32-1054	Corrosion Control
AFI 32-1062	Electrical Power Plants and Generators
AFI 32-1063	Electric Power Systems
AFI 32-1064	Electrical Safety Practice
AFI 32-2001	The Fire Protection Operations and Fire Prevention Program
AFI 32-7045	Environmental Compliance Assessment And ...
AFI 32-9002	Use Of Real Property Facilities
AFI 33-101	Communications And Information ...
AFI 33-119	E-Mail Usage And Management
AFI 33-127	Messaging Registration And Authority
AFI 33-129	Transmission Of Information Via The Internet
AFI 33-202	Computer Security
AFI 33-204	Information Protection Security ...
AFI 33-207	Computer Security Assistance Program
AFI 33-208	Information Protection Operations
AFI 33-210	Cryptographic Access Program
AFI 33-211	Communications Security (COMSEC) User Requirements
AFI 33-219	Telecommunications Monitoring and Assessment Program (TMAP)
AFI 33-275	Controlled Cryptographic Items (CCI)
AFI 37-138	Records Disposition--Procedures and Responsibilities
AFI 37-132	Air Force Privacy Act Program
AFI 37-160 V7	Publication Libraries and Sets
AFIND 4	Department Of Defense/DoD, Chairman Of ...
AFIND 9	Numerical Index Of Departmental Forms
AFJI 21-106	Joint Regulation Governing The Use And ...
AFJI 21-301	Inter-servicing Of Technical Manuals And ...
AFJMAN 23-209	Storage And Handling Of Hazardous Material

AFJMAN 32-1082	Facilities Engineering—Electrical Exterior Facilities
AFJMAN 32-1083	Electrical Interior Facilities
AFKAG-1	Air Force Communications Security (COMSEC) Operations
AFM 23-110	Standard Base Supply Customers Guide Vol.2, Part 13
AFM 33-225	Vulnerability and Incident Reporting
AFM 65-662	C-E Equipment Status and Reporting System, Users Manual
AFM 66-279 V2	Core Automated Maintenance System (CAMS) Inquires, Users Manual
AFMAN 23-215	Reporting Of Supply Discrepancies
AFMAN 23-220	Reports Of Survey For Air Force Property
AFOSHSTD 91-10	Civil Engineering
AFOSHSTD 91-32	Emergency Shower And Eyewash Units
AFP 91-46	Maintenance and Operation of Electrical Power Generator Systems
AFPAM 23-117	The Price Challenge/Zero Overpricing ...
AFPD 21-3	Technical Orders
AFSSI 3001	Operational Security Doctrine For The ...
AFSSI 3011	Operational Security Doctrine For The ...
AFSSI 3013	Operational Instruction For Trunk ...
AFSSI 3017	Operational Security Doctrine For Stand ...
AFSSI 3030	Protected Distribution Systems
AFSSI 4001	Controlled Cryptographic Items
AFSSI 5024V1	The Certification And Accreditation (C&A) ...
AFSSI 5024V4	Type Accreditation
AFSSI 5027	Network Security Policy
AFSSI 5033	Telephone Systems Security
AFSSI 7010	Emission Security Assessments
AFSSM 4003	Emergency Destruction Of Communications ...
AFSSM 5023	Viruses And Other Forms Of Malicious Logic
USAF S-2A-1	Index Of USAF and DoD Federal Supply ...
USAFEPAM 33-104	Storing Records On Disk - Guidance For ...
ANSI/TIA/EIA 568-A	Commercial Building Telecommunications Cabling Standard
ANSI/TIA/EIA 569-A	Commercial Building Standard for Telecommunications Pathways and Spaces
ANSI/TIA/EIA 606	Administration Standard for the Telecommunications Infrastructure of Commercial Buildings
ANSI/TIA/EIA 607	Commercial Building Grounding and Bonding Requirements for Telecommunications
KAM-529A/TSEC	Limited Maintenance Manual TSEC/KG-194/194a
KA0-179	Operational Manual/KG-81
KA0-184	Guidelines For The Use And Operation Of ...
KA0-210	Guidelines For The Use And Operation Of ...
KA0-218	Operating Instructions For The KG-94/94a
KOIKYK-18013	Operating Instructions
KOI-18/KYK-13	Operating Instructions
<b>DISA Circulars/Notices</b>	
DISAN 210-0-1	DISA Circulars And Notices
DISAC 220-15-1	DISA Area Outstanding DCS Facility Awards
DISAC 310-50-5	DISA Operations Control Complex And ...
DISAC 310-50-6	DCS Orderwire
DISAC 310-55-1	Status Reporting For DCS
DISAC 310-55-9	Base Level Support For The DISA Network/DISN
DISAC 310-65-1	Circuit And Trunk File Data Elements And ...
DISAC 210-70-2	DISA General Messages

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DISAC 310-70-1	DII Technical Control
DISAC 310-70-57	DII Quality Assurance Program
DISAC 300-85-1	Reporting Of DCS Facility And Link Data
DISAC 310-90-1	Physical Security Measures For DCS ...
DISAC 300-100-1	Radio Frequency Spectrum Management And ...
DISAC 330-115-1	Bulk Encryption In DCS And National Mil ...
DISAC 310-130-1	Submission Of Telecommunication Service ...
DISAC 310-130-2	DCS Management Thresholds And ...
DISAC 310-130-4	Defense User's Guide To The Telecomm ...
DISA-DITCOC 350-135-1	Defense Commercial Communications ...
DISAC 300-175-9	DII Operating-Maintenance Electrical ...
DISAC 350-195-2	Auxiliary Electric Power Systems
DISAEN 200-0-1	DISA-Europe Numbered Publications
DISAEC 210-70-1	General Messages
DISAEC 310-140-2	Connection Approval Procedures
DISAEC 310-195-1	Quality Assurance Program For The Defense ...

### 3.2 TECHNICAL ORDERS

Number	Title
00-20-1	Preventive Maintenance Program General Policy Requirements And Procedures, With Changes
00-20-2	Maintenance Data Documentation
00-20-3	Maintenance Processing Of Repairable Property And The Repair Cycle Asset Control System
00-20-8	Inspection Systems, Documentation, and Reporting for Ground Communications Electronics (C-E)
00-20-14	Air Force Meteorology And Calibration Program
00-25-108	Communications-Electronics (C-E), With Changes
00-25-195	AF Technical Order System Source, Maintenance And Recoverability Coding Of Air Force Weapons, Systems And Equipment
00-25-234	General Shop Practice Requirements for the Repair, Maintenance and Test of Electrical Equipment
00-25-245	Operations Instructions Testing and Inspection Procedures for Personnel Safety and Rescue Equipment
00-35D-54	USAF Materiel Deficiency Reporting/Investigating System
00-5-1	Air Force Technical Order System
00-5-2	Technical Order Distribution System
00-5-15	Air Force Time Compliance Technical Order System
00-5-18	USAF Technical Order Numbering System
0-1-31-1	General Ground Electronic Equipment
0-1-33-1	General Purpose Test Equipment
0-1-CD-1	Technical Order Catalogs, Indexes And Cross-Reference Table TOs
1-1-689	ORG/Unit and INTMD Maint – Avionic Cleaning and Corrosion Prevention/Control
31-10-11	AF Communications Svc (E-I Standard) -- ...
31-10-13	AF Communications Svc (E-I Standard) -- ...
31-10-14	AF Communications Command (E-I Standard) -- ...
31-10-2	Air Force Communications Command (E-I ...
31-10-24	Installation Practices -- Comm Sys ...

31-10-3	Air Force Communications Command (E-1 Standard) Standard Installation Practices
31-10-34	Standard Installation Practices Fiber Optic Communication Cable And Connectors
31-10-7	AF Communications Svc (E-I Standards) -- ...
31-1-141-8	Basic Electronics Technology And Testing Practice Fundamental Measurements
31-1-75	Maint Engineering Standard -- Gen Maint ...
31S-1-06-1	Work Unit Code Manual -- Depot, Intmd And Org Maint -- Ground Special Electronic Equip (Bendix)
31S3-4-132-1	CDD-1000 ATIS Recorder/Reproducer Instruction Book
31S5-2FSC-102-1	Maint MNL Vol 1 OPR Unit and Direct Support Digital European Backbone Sys
31S5-2FSC-102-2	Maint MNL Vol 2 OPR Unit and Direct Support Digital European Backbone Sys
31W-1-06-2	WUC Manual -- Depot, Intermediate and Org Maint, Ground Wire Electronic Equip (telephone)
31W-1-102	Substation Maintenance
31W1-2FSC-141	Opr And Org Maint Mnl -- Voice Orderwire ...
31W1-2FSC-142-1	Direct Support And General Support Maint ...
31W1-2FSC-142-2	Direct Support And General Support Maint ...
31W1-2FSC-142-3	Direct Support And General Support Maint ...
31W1-2FSC-142-4	Direct Support And General Support Maint ...
31W1-2FSC-142-6	Maint Inkster -- Direct And Gen Sprt, ...
31W1-2FSC-142-7	Direct Support And General Support Maint ...
31W1-2FSC-154	Direct Support And General Support Maint Rpr Parts ...
31W1-2FSC-164-1	Direct Support And General Support Maint ...
31W1-2FSC-164-2	Direct Support And General Support Maint ...
31W1-2FSC-164-3	Direct Support And General Support Maint ...
31W1-2FSC-164-4	Direct Support And General Support Maint ...
31W1-2FSC-164-6	Direct Support And General Support Maint ...
31W2-4-132-1	Inkster And P/L -- Fuse Panel, Models Fp-4/Gp1, ...
31W2-4-230-2	Service, Circuit Diagrams, And Ipb -- 20 Hz ...
31W2-4-230-6WC-1	Work Cards -- Preventive Maint For 20 Hz ...
31W2-4-259-2	Svc Inkster, Circuit Diagrams And IPB -- Line ...
31W2-4-288-1	Opn And Maint Inkster, Cd And IPB -- Org And ...
31W2-4-293-1	Opn And Maint Inkster, Cd And IPB -- Org And ...
31W2-4-299-2	Svc, Circuit Diagrams And IPB -- Dgtl Readout ...
31W2-4-300-2	Svc, Circuit Diagrams And IPB -- 4 Wire ...
31W2-4-301-2	Svc, Circuit Diagrams And IPB -- Em/20 Hz ...
31W2-4-302-2	Svc, Circuit Diagrams And IPB -- Line ...
31W2-4-306-2	Svc, Cd, IPB -- 6 Way/4 Wire Bridge P/N K740t009- ...
31W2-4-312-1	Opr, Cd, IPB -- Misc Equipments Group 1 For ...
31W2-4-313-4	IPB -- Coordinating Console Pn 6-42b-1-B-D-B- ...
31W2-4-318-2	Svc, Cd And IPB -- Loop To E And M Central ...
31W2-4-322-1	Combined Operation And Maint Inkster And ...
31W2-4-323-1	Combined Operation And Maint Inkster And Ipb ...
31W2-4-323-6WC-1	Pmwc -- Alarm Monitor Assy P/N K760t009-01 ...
31W2-4-329-1	Opr And Maint Inkster W/IPB -- (Intermediate) ...



31W2-4-330-12-1	Station Service Manual Vol I Books 20 - 22
31W2-4-330-12-2	Station Service Manual Vol II Books 23 - 25
31W2-4-330-2-1	Key Systems Service Manual Vol I - Books 11 - 13
31W2-4-330-2-2	Key Systems Service Manual Vol II - Books 14 - 16
31W2-4-330-22-1	Station Specialties Service Manual Books 26 - 28
31W2-4-330-22-2	Service Instructions Vol II
31W2-4-330-2-3	Key Systems Service Manual Vol III- Books 17 - 19
31W3-10-12	Outside Plant Cable
31W3-10-13	Standard Installation Practices Outside Plant Cable Splicing
31W3-10-14	Outside Plant Cable Termination
31W3-10-15	Outside Plant Cable Testing
31W3-10-19	Outside Plant Cable Open Wire And Pole Line Installation, Maintenance And Repair,
31W3-10-20	Telephone Outside Plant Installation Drop And Block Wiring And Station Installation
31W3-10-21	Outside Plant Cable Maintenance And Repair
31W3-10-22	Telecommunication Engineering Outside Plant, Telephone
31Z-10-2	Tech MNL - General Engrg Prevention and Elimination of Interference to Comm-Elect Equip Electronics Interference
31Z-10-4	Electromagnetic Radiation Hazards
31Z-10-6	GENL Engineering - Radio Freq INTFR Prediction Procedures
31Z-10-20	Air Force Comm Service (E-I Facility Standards Manual) Digital Comm (ARMY FM11-486-13) Digital Communications
31Z-10-21	AF Comm SVC (E-I Facility Standards Manual) Telecommunications Engineering - Technical Control Facilities
31Z-10-37	General Engineering Tech MNL - Corrosion Prevention and Protection
32-1-2	Use of Hand Tools (International Business Machines)
32-1-101	Use and Care of Hand Tools and Measuring Tools
32-1-151	Hand and Measuring and Power Tools
32B14-3-1-101	OPN and SVCE INSTR - Torque Indicating Devices
33-1-27	Logistic Support of Precision Measurement Equip - 6625 Electrical and Electronic Properties Measuring and Testing Instruments, 6630 Chemical Composition Determining Instruments, 6635 Physical Properties Testing Equip, 6640 Laboratory Equip and Supplies
33-1-32	GENL INSTR - Input Power Wiring of Elec/Elek Support EQPT
33A1-10-276-1	Instruction Manual -- Microwave Frequency ...
33A1-10-287-1	Opn And Maint -- Universal Timer/Counter, Pn 1992-02M (Racal-Dana) (Coml Mnl 980636)
33A1-12-1126-11	Operation And Maintenance Inkster Manual With Parts List -- Digital Multimeter, Model 8800A/AA, (John Fluke) (Commercial Manual)
33A1-12-1148-1	Maintenance Instruction Manual With Parts List -- Multimeter, Model 8040A (John Fluke Mfg Co Inc) (Coml Mnl)
33A1-12-1149-1	Operation And Maintenance Inkster Manual ...

33A1-12-1198-1	Instruction Manual With Parts List -- Multimeter, Pn 8025A (Fluke Inc) (Coml Mnl)
33A1-12-1292-1	Operator□S, Organizational, Direct Support, And General Support Maintenance Manual -- Multimeter, Digital AN/PSM-45 (NSN 6625-01-139-2512)
33A1-12-607-1	Inkster Manual -- Thruline RF Directional Wattmeter, Model 43 (Bird Electronic)
33A1-12-649-1	Opr Inkster -- Adjustable Attenuator, Type 874-GAL (Coml Mnl) (General Radio)
33A1-12-664-1	Inkster With P/B -- Bridging Transformer, Mod 11005A (Coml Mnl) (Hewlett-Packard)
33A1-12-668-1	Inkster And P/B -- Termaline Radio Freq Wattmeter, Model 694 (Bird Electronic) (Coml Mnl)
33A1-12-848-1	Opn And Svc Inkster W/Pl -- Voltmeter, Model 427A, C02-427A (Hewlett-Packard) (Coml Mnl)
33A1-13-373-1	And Svc Inkster -- Adapters, Model 281a/B ...
33A1-13-393-41	Opr And Svc Inkster -- Spectrum Analyzer, If ...
33A1-13-451-1	Opr And Maint Inkster With IPB -- Oscilloscope, Type AN/USM-398 (Fsn 6625-148-9406)
33A1-13-584-1	Opr Mnl -- 2246 1Y And 2246 Mod A Portable Oscilloscopes Operators Sn B100100 And Above (Commercial Manual (Tektronix)
33A1-13-591-2	Maintenance Manual- Portable Oscilloscope PN 2246 MOD A and 22461Y SN B100100 and Above, Manual Part NO 070-7062-00, Product Group 46 (Tektronix)
33A1-3-330-1	Opr And Svc Inkster -- Portable Test Set, Model 3550A (Hewlett-Packard) (Coml Mnl)
33A1-3-330-11	Opr And Svc Inkster -- Portable Test Set, Model 3550B-H02-3550B, C15-3550B (Hewlett-Packard) (Coml Mnl)
33A1-4-5-1	Inkster Book -- Test Sets AN/PSM-1, -2 (Holtzer-Cabot)
33A1-5-219-1	Opr And Svc Inkster -- Distortion Analyzer, Mod 331A, 332A (Hewlett Packard)(Coml Mnl)
33A1-5-269-11	Opr And Svc Inkster -- Distortion Analyzer, Model 333A, 334A (Hewlett Packard) (Coml Mnl)
33A1-5-422-2	Svc Inkster With Pl -- Digital Voltmeter (Option 021) For Universal Counter, Model 5328A (Hewlett-Packard) (Commercial Manual)
33A1-7-261-1	Operating and Service Manual With PL -- Power Meter Model 436A W/OPTS 003,004 and 022 (Hewlett Packard) (Commercial Manual)
33A1-7-270-1	Opn And Svc Manual -- Power Sensor, Model ...
33A1-7-272-11	Opn And Serv Manual -- Power Meter, P/N Hp ...

33A1-8-927-1	Operating and Service INSTRS – Signal Generating 0.1-990MHZ, PN 8656A (Singer Link Division) (COML MNL)
33A1-8-760-31	Opn And Svc Manual -- Signal Generator, Model 8640B, Including Options 001, 002, And 003, Pn 08640-90186 (Hewlett-Packard) (Coml Mnl)
33AA17-176-1	Operation and Service INSTR Manual – Precision Power Supplies, Models 6104A, 6114A, 6105A, 6115A, (Hewlett Packard) (Commercial Manual)
33AA18-20-1	Identifies A Commercial Manual Titled Opr Inkster -- Probe, Type 6007, P/N 010-0150-00, -0134-00, -0165-00, -0162-00, -0152-00, -0136-00, -0154-00, -0138-00 (Tektronix)
33AA18-22-1	Identifies A Commercial Manual Titled Opr Inkster -- Probe, Type P6010, P/N 010-0188-00, -0185-00, 0201-00 (Tektronix)
33AA18-9-1	Opr & Maint Instr -- Probe, Type P6011, Pn 010-0193-00, -0190-00, -0229-00 (Tektronix) (Coml Mnl)
33AA36-10-1	Opr Inkster -- Coaxial Attenuators, Model ...
33D7-10-112-1	Opn And Svc Manual -- Microwave Spectrum ...
33D7-10-147-1	Operators Instruction -- Spectrum Analyzer, ...
33D7-10-147-2-1	Service Instruction -- Spectrum Analyzer, Pn ...
33D7-10-147-2-2	Service Instruction -- Spectrum Analyzer, Pn ...
33D7-10-154-1	OPN and SVC INSTR – Spectrum Analyzer, PN 8569B,0.01-115AZ,Option 001/002 (Hewlett Packard) (COML MNL)
33D7-10-163-1	Operators Manual -- Spectrum Analyzer Pn 494/494p (Tektronix) (Coml Mnl)
33D7-10-163-12-1	Spectrum Analyzer (Model 494a)
33D7-10-65-1	Opr And Svc Inkster -- Spectrum Analyzer, ...
33D7-29-54-1	Svc Inkster With Pl -- Transmission Test Set, ...
33D7-29-60-2	Service Manual -- Transmission Test Set, Pn 42 ...
33D7-50-159-1	Opr And Maint Inkster With Ipb -- Radio Test Set, Type AN/ARM-173, Test Adapter, Type MX-9530/ARC (Magnavox)
33D7-50-159-1-2	Supplementary Manual -- Opn And Maint Inkster With IPB -- Radio Test Set, Type TS-3919/ARM-173, Pn 706843-801 (Magnavox)
33D7-71-75-1	OPER & Maint INSTR - Model 3700, Comm Test System, Test Scope Command HF Radio Set (Comm MNL) (Heikimaian)
33D7-77-11-1	Opr And Svc Inkster With Pl -- Display Section, ...
33D9-57-118-1	Operators Manual -- Digital Multimeter, True RMS Model 467, With Dialog Display (Simpson) (Coml Mnl)
33D9-57-118-2	Service Manual -- True RMS Peak Hold Reading Digital Multimeter, Model 467, Bulletin 10-81 (Simpson Electric Co) (Commercial Manual)
33DA52-14-1	Operation And Service Inkster – Microwave ...
33K-1-101-CD-1	Calibration Standard & Associated Equipment (On CD ROM Only)
33K-1-102-CD-1	Calibration Procedure -- Metrology Information & Document Auto Sys
33K3-4-318-1	Calibration Procedure – Transmission ...
33K8-4-265-1	Calibration Procedure -- Digital Multimeter ...
35-1-12	Compounds and Procedures for Cleaning Support EQPT
35C1-2-1035-2	Field Maint Inkster -- Pwr Sply Model PP-7975/TRC
35C1-2-262-1	Inkster With Pl -- DC Power Supply, Model 6439B (Hewlett-Packard)
35C1-2-452-1	Inkster -- Regulated Power Supplies, Lcs-B ...
35C1-2-844-1	Opr, Org, Ds And Gs Maint Inkster -- 48 Volt Pwr ...
35C1-2-844-4	Opr, Org, Ds And Gs Maint Repair Parts And ...
35C1-2-844-6WC-1	SCHED PERD INSP Work cards – Power Supplies PP-7694/U, -7695/U, -7696/U, -7697/U, -7698/U, -7699/U, -7700/U, -7701/U
35C2-3-1-06	ORG, Intermediate and Depot Maint -- WUC Manual -- FSC 6115 Electrical Generator Sets, ENG Driven

35C2-3-1-15	Corrosion Control, FSC 6115 Age Generator Sets
35C2-3-1-426	INSP and Maint INSTR -- FSC 6115 Electrical Generator Sets ENG Driven (AGE)
35CA28-4-1	Inkster Mnl -- Rack Adapters, Lra-14, Lra-15, ...
35E28-8-2	Svc And O/H Inkster With IPB Air Dryer, Model ...
35F5-2-4-13	O/H Inkster With P/B--Light, Traffic, Acft, Type SDU 4/U, Spec Mil-L-25971 Model 975 (Multi-Electric)
49B3-49-1	Opr And Maint With IPB -- RF Oscillator Model ...
49B3-58-2	Intmd Maint Inkster -- Time Signal Set, AN/TRC-187A, Pn 901634-802 (Magnavox)
49B3-58-3	Maint Inkster (Ovhl) -- Time Signal Set, Pn 901634-802 (Magnavox)
49B3-58-4	IPB -- Time Signal Set, AN/TRC-187A Pn 901634-802 (Magnavox)
LWC-31CS-08	DTMF Circuit Alignment
LWC-31CS-11	
LWC-31CS-56	Distribution Frames
LWC-31CS-59	Alcatel MDR-4XXX's
LWC-31CS-60	TSM-2500

### 3.3. COMMERCIAL MANUALS

Manufacturer	Equipment Nomenclature	Title Manual
	Recovered Clock Monitor	Operation & Maintenance Instructions
	Universal Rack And Panel, Fuse	
	604M Data Transmission Test Set	Operation And Maintenance Manual
	604M Test Set Model - Addendum	Operation And Maintenance Manual
	Model ATB-6C Audio Test Bay	Operations Manual
	Model 30678 Data Interface (DDS DSO A/B)	Operating Manual
	Model 40540 Data Interface (DS1/T1/D4ESF/SLC-96)	Operating Manual
	Model 40226 Unbalanced Interface (Mil-188C/Mil-188-114)	Operating Manual
	Static Inverters	Technical Manuals
	Fiber Optic Transmission Equipment Communication System FOTO II	CS Operation And Maintenance Manual
	Multi-Circuit Patching System	Technical Manual
	Model DCP-100 DC Patch Bay	
Alcatel	T1 Digital PCM Span Line	Operation - Installation - Maintenance Manual
Austron	Disciplined Frequency Standard	Operation & Maintenance Manual
Austron	Frequency Multiplier	Operation & Maintenance Manual
Austron	Standby Power Supply	Operation & Maintenance Manual

Austron	LF Multifilter	Operation & Maintenance Manual
Austron	Model 2010B Disciplined Frequency Standard	Operation & Maintenance Manual
Austron	Model 2084 LF Multi Filter	Operation & Maintenance Manual
Austron	Model 2100F Loran C Frequency Monitor	Operation & Maintenance Manual
Austron	Frequency Multiplier	Operation & Maintenance Manual
Austron	Model 1290A Standby Power Supply	Operation & Maintenance Manual
Aydin	604M Data Transmission Test Set	Operation & Maintenance Manual
Ballantine	6000 Communications Analyzer	User's Guide
Codex	2600 Modem	User's Manual
Codex	9600 Data Modem	Operation Manual
Codex	MX2400 Modem	User's Manual
Codex	2510 Modem	User's Manual
Codex	2171 LDM Modem	Operation & Installation Guide
Codex	2520/2540 Modem	User's Manual
Codex	2170 Multiple Nest	Operation & Installation Guide
Devilbiss	Air Compressor	Owner's Manual
Digiac	Model T251 DC Power Regulator	
EIA/IA 568		Commercial Building Wiring
EIA/IA 569		Pathways and Spaces
EIA/IA 570		Light Commercial/Residential Wiring
EIA/IA 606		Documentation Standards
EIA/IA 607		Grounding and Bonding Digital Equipment
Eip	Models 545A And 548A Microwave Frequency Counters	Operating Manual
ETL 87-9		Prewiring DoD Buildings, Criteria and Standards for Construction
Fibermux Corporation	FX 4400 High Capacity Multiplexer	
Firebird	6000 Remote Control	Operating Commands Manual
Fluke	AN/77	Operator Manual
Fluke	BN/77	Operator Manual
Fluke	8000A Digital Multimeter	Instruction Manual
Fluke	8010M Digital Multimeter	Operations Manual

Fluke	8060A Digital Multimeter	Instruction Manual
GNB	Absolyte II Stationary Battery System	Installation & Operating Instructions
GNB	Stationary Batteries Dry Uncharged	Initial Charge & Filling Instructions
Gould	Battery Bank	Instruction Manuals
Gould	Stationary Battery	Installation & Operating Instructions
GRM	Models FP-40, 40A, 40B Fuse Panels	
Harris	Digital Versatility Light wave Multiplexer-Demultiplexer Assembly	Installation & Operations Manual
Hewlett Packard	Power Supply	Operating & Service Manual
Hewlett Packard	HP-83/85	Matrix Rom Manual
Hewlett Packard	HP-IB Interface	Owner Manual
Hewlett Packard	I/O Rom	Owner Manual
Hewlett Packard	HP-85	Standard Pac
Hewlett Packard	HP-85	Owner Manual
Hewlett Packard	8552B Spectrum Analyzer If Section	Operating & Servicing If Section
Hewlett Packard	8552B Spectrum Analyzer If Section	Operation Information
Hewlett Packard	8555A Spectrum Analyzer Rf Section	Operation Information
Hewlett Packard	Model 1105A Bridging Transformer	Operating & Service Manual
Hewlett-Packard	Model 3780A Pattern Generator/Error Detector	Operating Manual
Hewlett-Packard	Model 3780A Pattern Generator/Error Detector	Operating & Service Manual
Hewlett-Packard	8568B Spectrum Analyzer	Operating & Programming Manual
Hewlett-Packard	8568BSpectrum Analyzer	Performance Tests & Adjustments Manual
Hewlett-Packard	436A Power Meter	Operating & Service Manual
Hewlett-Packard	8568B Spectrum Analyzer	Operator Handbook
Hewlett-Packard	8481A/82A/83A Power Sensor	Operating & Service Manual
Hewlett-Packard	Regulated DC Power Supply	
Hughey & Phillips	LC5621 Lighting	Installation & Maintenance Instructions
Hughey & Phillips	LC5320 Combiner Relay Box	Installation Instructions
Hughey & Phillips	MA203 Tower Lighting Control Unit	Installation Instructions
IEEE 802.10		Standard for Interoperable LAN/MAN Security (SILS)

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IEEE 802.3U		100BaseT and 100BaseX Standards
IEEE 802.6		MAN System Requirements
IEEE 802.8		Fiber Optic Advisory Board Standards
IEEE 802.9		Integration of Voice and Data Systems
Lambda	Power Supplies	Instruction Manuals
Lambda	Rack Adapters	
Lambda	LGS-EE Series Regulated Power Supply	
Lambda	#13584 Regulated Power Supply Assembly	
Lorain	Rectifier	Warranty & Assembly Instructions
Loran	C/CdS-10	Quick Reference Guide
NFPA 70		National Electrical Code
OSHA Regulations (www.osha.gov)		OSHA Regulations, Documents & Tech Information, CFR Title 29, Parts 1900 – 1990
Racal	Milgo 26 Modem	User's Guide
Racal	Milgo 26 Modem LSI Mark Ii	Installation & Operation Manual
Racal	Vadic VI 1614 Multiple Modem	Chassis Configuration Guide
Racal	Milgo Modem Comm-Link Iii	Installation & Operation Manual
Racal	Vadic VI 1222 Modem	Installation & Operation Manual
Racal	Milgo Omni mode 96	Reference Manual
Sencore	TF46 Tester - Transistor Or FET	Operations Manual
Simplex	Load Bank, Model LB 125	Operations Manual
SP2840		Category 5 Component Specifications
Tectronix	P6106 Passive Probe	Operations Manual
Tektronix	P6101a 1x Passive Probe	Instruction Sheet
Tektronix	P6106 Passive Probe	Instruction Manual
Tektronix	P6106A 10x Passive Probe	Instruction Manual
Tektronix	P6109 10x Passive Probe	Instruction Sheet
Tektronix	P6401 Logic Probe	Data Sheet
Tektronix	P6062B Passive Probe	Operations Manual
Tektronix	475M Oscilloscope	Instruction Manual
Tektronix	466/464 Oscilloscope And DM44	Instruction Manual

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Technical Exhibit 3 Publications and Forms

	Digital Multimeter	
Tektronix	475M/475A Oscilloscope And DM44 Digital Multimeter	Instruction Manual
Tellabs	6921B Echo Cancellers	Technical Manual
Tellabs	6131 2 Wire-To-4 Wire SF-To-E&M Terminal Interface Module	Installation & Operations Manual
Tellabs	6008B FXO-To-E&M Signaling Converter Subassembly	Installation & Operations Manual
Tellabs	6047 And 6047a 4 Wire-To-4 Wire SF-To-E&M Terminal Repeaters	Installation & Operations Manual
Tellabs	16C-00, 16C-01 And 16C-02 Apparatus Cases	Operations Manual
Tellabs	Transcoder 83.4511	Operators Guide And Manual
Tellabs	451A Mounting Assembly	Technical Manual
Tellabs	451B Mounting Assembly	Technical Manual
Tellabs	4511 T-Coder	Technical Manual
Tellabs	8102 Ringing Generator	Installation & Operations Manual
Tm Systems	Multicircuit Patching System	Technical Manual
Truetime	GPS-Dc Mk Iii	Operation Manual
Truetime	GPS-Dc Mk Iii	Operating & Service Manual
Trygon Electronics	DI40-1 Power Supply	Instruction Manual
TSB 36		Cable Requirements for Digital Systems
TSB 40		Termination Components
TSB 67		Cable Testing
UL Standards		Cat 5 UTP Wire
United Detector Technology	Model 161 Optometer	Operations Manual
United Detector Technology	Model 80X Optometer	Operations Manual
Versitron	CDS 10	Application Data
Versitron	Local Distribution Phaser	Technical Manual
Versitron	Local Distribution Phaser	Technical Manual
Wescom	4101 98 VDC Transfer Relay Module	Installation Manual
Wescom	4309 Auxiliary Line Relay Module	Installation Manual
Wescom	4285-00 And 4286-00 Fuse And Distribution Modules	Installation & Operations Manual



**TECHNICAL EXHIBIT 4****REQUIRED REPORTS**

Unless specified otherwise, reports submitted in contractor's format are acceptable.

Item	Title	SOW Paragraph	Remarks	Frequency	Format	Distribution
1	Quality Control Plan	4.2.	Provide NLT 30 Calendar days after Contract start date and within 30 Calendar days of any change	As Required	Electronic	USAFE/SCXC, USAFE/CONS, QAP Offices
2	Property Control Plan	4.2.	Provide NLT 30 Calendar days after Contract start date and within 30 Calendar days of any change	As Required	Electronic	USAFE/SCXC, USAFE/CONS, QAP Offices
3	Security Plan	4.2.	Provide NLT 30 Calendar days after Contract start date and within 30 Calendar days of any change	As Required	Electronic	USAFE/SCXC, USAFE/CONS, QAP Offices
4	Telephone Control Plan	4.2.	Provide NLT 30 Calendar days after Contract start date and within 30 Calendar days of any change	As Required	Electronic	USAFE/SCXC, USAFE/CONS, QAP Offices
5	Safety Plan	4.2.	Provide NLT 30 Calendar days after Contract start date and within 30 Calendar days of any change	As Required	Electronic	USAFE/SCXC, USAFE/CONS, QAP Offices
6	Phase-in Plan	4.2.	Provide NLT 30 Calendar days before Contract Phase-in starts.	As Required	Electronic	USAFE/SCXC, USAFE/CONS, QAP Offices
7	Employee Listing	4.2.	Provide NLT 5 Calendar days after changes occur	As Required	Electronic	USAFE/SCXC, USAFE/CONS, QAP Offices
8	Budget Submission	1.14.	Submit consolidated budget requirements in time for host unit's budget submission	Annually	Electronic	Unit Flight Commanders, USAFE/SCXC, QAP Offices
9	Employee Misconduct/Host Nation Incident	4.3.	Notification to QAP must be accomplished within 24 hours, with official report to follow within 5 working days of incident	As Required	Electronic	USAFE/SCXC, USAFE/CONS, QAP Offices
10	Facility Modification Proposal	3.2.	Submit all requests to Government for approval prior to property modifications	As Required	Electronic	Host Base CE USAFE/SCXC, USAFE/CONS, QAP Offices
11	Rescheduled/Deleted PMIs	1.3.	Submit report NLT 1 day prior to rescheduled date	As Required	Electronic	Unit Flight Commanders

Statement of Work  
Technical Exhibit 4 Required Reports

			or original date			QAP Offices
12	Status Report	1.3.	Provide status briefing information to host unit maintenance control	Daily	Electronic	Flight Commander, QAP Offices, Host Unit Maintenance Control
13	Equipment Replacement Request	3.3.	Submit request for replacement equipment to host base unit for approval/purchase	As Required	Electronic	Unit Flight Commanders, QAP Offices
14	Inventory	3.2.	First submission will be NLT 15 calendar days after contract start and Annually NLT 15 calendar days of start of new option period	Annually	Electronic	USAFE/SCXC, USAF/CONS, QAP Offices
15	Quality Control Program	4.4.	Submit all QC reports within 5 working days of completion	As Required	Electronic	USAFE/SCXC, USAF/CONS, QAP Offices
16	Project Manager	4.3.	Provide name and contact details of delegated project manager when primary is unavailable	As Required	Electronic	USAFE/SCXC, USAF/CONS, QAP Offices
17	GFP Damage report	3.2.	Submit all damaged GFP NLT 2 duty days after occurrence	As Required	Electronic	USAFE/SCXC, USAF/CONS, QAP Offices
18	Standby Schedule	1.14.	Submit standby schedule with names and contact number NLT 1 duty day prior to change	As Required	Electronic	Host Unit Maintenance Control, QAP Offices

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